

How MathXL/Coursecompass changed my assessments

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May 23, 2010

Context

Maths for Scientists

- Functions
- Differentiation
- Integration

Context

Maths for Scientists

- Functions
- Differentiation
- Integration

Problems in 2008

- Assessment consisted of 100% Final Exam.
- Lectures poorly attended.
- Tutorials poorly attended.
- What should I do in tutorials?
- **80% failure rate.**

Context

Recent changes in WIT

- Semesterisation and Modularisation - 12 week semester.
- Move to **Learning Outcomes**.
- 50-50 or 100-0 assessments.
- Thou shalt not assess the same material twice.
- Assessments must be linked to specific Learning Outcomes.

Context

Recent changes in WIT

- Semesterisation and Modularisation - 12 week semester.
- Move to **Learning Outcomes**.
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- Assessments must be linked to specific Learning Outcomes.

MyMathLab

- Lecturer sets up module online based on a Pearson textbook.
- Student purchases textbook and access code.
- Website:
 - www.coursecompass.com
 - www.mathxl.com

The Student's View

The Student's View - Homeworks

CourseCompass - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.coursecompass.com/

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PEARSON

MyLab Courses? You've Come to the Right Place!
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MyMathLab **MyStatLab** **MyEconLab**

Access the World of Online Learning from MyPlaces
Connect to all your Pearson courses and resources from a single, handy list. [Read more...](#)

What's New
In CourseCompass? | In MyLabs?

Take a Tour
[View List of Tours](#)

Returning Users:

LOG IN

Forgot your login name/password?

Students **Register** **Need Help?**

Educators **Register** **Request Access**

STUDENTS **Take a Tour**

How to Register
How to Buy Access
Getting Started

Welcome to CourseCompass, the online learning environment that helps you succeed in your MyLab or other course! CourseCompass offers you all the resources you need to get up and running in your courses. Here you'll find course

EDUCATORS **Take a Tour**

How to Request Access
How to Register
Getting Started

CourseCompass is a dynamic, interactive online learning environment. CourseCompass delivers powerful MyLabs and other courses that provide proven, effective tutorials and assessments for industry-leading Pearson textbooks.

http://www.coursecompass.com/html/myplaces.html

The Student's View - Homeworks

Homework and Tests - Padraig Kirwan - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.mathxl.com/Student/DoAssignments.aspx?refer=http%3a%2f%2fcp03.coursecompass.com

Most Visited Customize Links Free Hotmail Windows Media Windows

Google Search RS Share Sidewiki Bookmarks

CourseCompass Homework and Tests - Padraig Ki...

[Course Calendar](#) [Legend](#) [?](#)

Homework and Tests

Show All Homework Quizzes & Tests Chapters

All Assignments

Due	Assignment	Time Limit	Attempts	Gradebook Score
01/29/10 6:00pm	Homework 1 - Functions (Ch 18,19,20,23,24)			3.3%
02/05/10 6:00pm	Homework 2 - Functions (Ch 16,17)			past due
02/12/10 6:00pm	Homework 3 - Differentiation (Ch 28)			0%
02/26/10 6:00pm	Homework 4 - Differentiation (Ch 29)			0%
03/05/10 6:00pm	Homework 5 - Differentiation (Ch 28)			6.7%
03/19/10 6:00pm	Homework 6 - Integration (Ch. 30)			past due
03/26/10 6:00pm	Homework 7 - Integration (Ch. 31)			past due
04/22/10 12:00pm	Homework 8 - Integration (Ch. 31)			0%
03/09/10 4:00pm	Functions & Differentiation Test	50min	0 of 1	past due
04/22/10 4:00pm	Integration Test	50min	0 of 1	past due

Done

The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

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Question 28.2.1

Exercise Score: 0 of 1 pt

Assignment Score: 0% (0 of 30 pts)

0 of 30 complete

Find y' when y is given by x^5 .

$y' =$

(Simplify your answer.)

Enter any number or expression in the edit field, then click Check Answer.

All parts showing

Clear All

Check Answer

Save

Help Me Solve This

View an Example

Textbook

Ask My Instructor

Print

The Student's View - Homeworks

Help Me Solve This

Find y' when y is given by x^3 .

If $y = x^n$ then the gradient function is given by $y' = nx^{n-1}$.

Press Continue to see more.

2 parts remaining

Continue Close

The Student's View - Homeworks

Help Me Solve This

Find y' when y is given by x^3 .

If $y = x^n$ then the gradient function is given by $y' = nx^{n-1}$.

Here, $n = 3$.

Fantastic!

OK

Enter any number or expression in the edit field, then click Check Answer.

1 part remaining

Clear All Check Answer Close

The Student's View - Homeworks

Help Me Solve This

Find y' when y is given by x^3 .

If $y = x^n$ then the gradient function is given by $y' = nx^{n-1}$.

Here, $n = 3$.

So $y' = 3x^3$.
(Simplify your answer.)

✗ Sorry, that's not correct.

Please try again.

Done

Enter any number or expression in the edit field, then click Check Answer.

All parts showing

Clear All Check Answer Close

The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

Question 28.2.1

Exercise Score: 0 of 1 pt Assignment Score: 0% (0 of 30 pts) 0 of 30 complete

Find y' when y is given by x^5 .

$y' =$

(Simplify your answer.)

Enter any number or expression in the edit field, then click Check Answer.

All parts showing Clear All Check Answer Save

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The Student's View - Homeworks

View an Example

Find the gradient function of (a) $y=x$ and (b) $y=x^2$

For any function of the form $y=x^n$ the gradient function is found from the following formula:
If $y=x^n$ then $y'=nx^{n-1}$.

(a) Comparing $y=x$ with $y=x^n$ we see that $n=1$. Then $y'=1x^{1-1}=1x^0$. Because x^0 is simply 1 we find that the gradient function is $y'=1$.

(b) Comparing $y=x^2$ with $y=x^n$ we see that $n=2$. Then $y'=2x^{2-1}=2x^1$. Because x^1 is simply x we find that the gradient function is $y'=2x$.

Question is complete.

All parts showing

Close

The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

Question 28.2.1

Exercise Score: 0 of 1 pt Assignment Score: 0% (0 of 30 pts) 0 of 30 complete

Find y' when y is given by x^5 .

$y' =$

(Simplify your answer.)

Enter any number or expression in the edit field, then click Check Answer.

All parts showing Clear All Check Answer Save

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The Student's View - Homeworks

Anthony Croft and Robert Davison

Foundation Maths, Fourth edition



Chapter 28: Gradients of curves: 28.2 Gradient function of $y = x^n$

Back

317

Forward

Q

Q

Print

Contents

28.2 Gradient function of $y = x^n$

For any function of the form $y = x^n$ the gradient function is found from the following formula:

Key point

If $y = x^n$ then $y' = nx^{n-1}$

WORKED EXAMPLES

28.1 Find the gradient function of (a) $y = x^3$, (b) $y = x^4$.

Solution

(a) Comparing $y = x^3$ with $y = x^n$ we see that $n = 3$. Then $y' = 3x^{3-1} = 3x^2$.

(b) Applying the formula with $n = 4$ we find that if $y = x^4$ then $y' = 4x^{4-1} = 4x^3$.

28.2 Find the gradient function of (a) $y = x^2$, (b) $y = x$.

Solution

(a) Applying the formula with $n = 2$ we find that if $y = x^2$ then $y' = 2x^{2-1} = 2x^1$. Because x^1 is simply x we find that the gradient function is $y' = 2x$.

(b) Applying the formula with $n = 1$ we find that if $y = x^1$ then $y' = 1x^{1-1} = 1x^0$. Because x^0 is simply 1 we find that the gradient function is $y' = 1$.

The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

Question 28.2.1

Exercise Score: 0 of 1 pt Assignment Score: 0% (0 of 30 pts) 0 of 30 complete

Find y' when y is given by x^5 .

$y' =$

(Simplify your answer.)

Enter any number or expression in the edit field, then click Check Answer.

All parts showing Clear All Check Answer Save

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The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

Question 28.2.1

Exercise Score: 0 of 1 pt Assignment Score: 0% (0 of 30 pts) 0 of 30 complete

Find y' when y is given by x^5 .

$y' = 5x^4$
(Simplify your answer.)

Nice Work!

OK

Enter any number or expression in the edit field, then click Check Answer.

All parts showing Clear All Check Answer Save

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The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

Question 28.3.14

Exercise Score: 0 of 1 pt Assignment Score: 3.3% (1 of 30 pts) 1 of 30 complete

Find the values of x such that the gradient of $y = \frac{x^3}{3} - 25x + 8$ is 0.

$x =$ and .

(Use descending order.)

Enter any number or expression in each of the edit fields, then click Check Answer.

All parts showing Clear All Check Answer Save

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The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

Question 28.3.14

Exercise Score: 0 of 1 pt Assignment Score: 3.3% (1 of 30 pts) 1 of 30 complete

Find the values of x such that the gradient of $y = \frac{x^3}{3} - 25x + 8$ is 0.

$x =$ and .
(Use descending order.)

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Sorry, that's not correct.

Differentiate the function and factorise the result. Put the resulting expression equal to 0 and solve for x .

Done

Enter any number or expression in each of the edit fields, then click Check Answer.

All parts showing

Clear All Check Answer Save

The Student's View - Homeworks

Homework: Homework 3 - Differentiation (Ch 28)

Question 28.3.14

Exercise Score: 0 of 1 pt Assignment Score: 3.3% (1 of 30 pts) 1 of 30 complete

Find the values of x such that the gradient of $y = \frac{x^3}{3} - 25x + 8$ is 0.

$x =$ and .

(Use descending order.)

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Sorry, that's not correct.

Sorry, your answer is not correct.
Correct answers: 5, -5
Your answers: 5, 4

Done

Enter any number or expression in each of the edit fields, then click Check Answer.

All parts showing

Clear All Check Answer Save

The Student's View - Homeworks

Homework: Homework 5 - Differentiation (Ch 28)

<< < 1 2 3 4 5 6 7 8 9 10 > >>

Question 28.5.9

Exercise Score: 0 of 1 pt

Assignment Score: 0% (0 of 10 pts)

0 of 10 complete

Determine the location and nature of the stationary points of $y = 3x^5 - 15x + 1$.

The stationary point are located at (,) and (,)
(Use descending order for x coordinates.)

Enter any number or expression in each of the edit fields, then click Check Answer.

2 parts remaining

Clear All

Check Answer

Save

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The Student's View - Homeworks

Homework: Homework 5 - Differentiation (Ch 28)

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Question 28.5.9

Exercise Score: 0 of 1 pt

Assignment Score: 0% (0 of 10 pts)

0 of 10 complete

Determine the location and nature of the stationary points of $y = 3x^5 - 15x + 1$.

The stationary point are located at $(1, 11)$ and $(-1, 13)$.
(Use descending order for x coordinates.)

Enter any number or expression in each of the edit fields, then click Check Answer.

2 parts remaining

Clear All

Check Answer

Save

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The Student's View - Homeworks


Homework: Homework 5 - Differentiation (Ch 28)

Question 28.5.9

Exercise Score: 0 of 1 pt Assignment Score: 0% (0 of 10 pts) 0 of 10 complete

Determine the location and nature of the stationary points of $y = 3x^5 - 15x + 1$.

The stationary point are located at (1, -11) and (-1, 13).
(Use descending order for x coordinates.)

 **Nice Work!**
OK

Enter any number or expression in each of the edit fields, then click Check Answer.

2 parts remaining

Clear All Check Answer Save

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The Student's View - Homeworks


Homework: Homework 5 - Differentiation (Ch 28)

Question 28.5.9

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(Use descending order for x coordinates.)

 **Nice Work!**
OK

Enter any number or expression in each of the edit fields, then click Check Answer.

2 parts remaining

Clear All Check Answer Save

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Problems with Homeworks

Over-reliance on the supports;

- this was highlighted by students performing poorly in online tests, having done very well in the homeworks.

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No guarantee that the student did the work themselves;

- in 2009 one student achieved 100% on the homeworks but less than 10% in the final exam;
- in 2009 I gave 20% of the final marks for the homeworks;
- this year I gave 10% of the final marks for the homeworks.

Problems with Homeworks

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- in 2009 I gave 20% of the final marks for the homeworks;
- this year I gave 10% of the final marks for the homeworks.

Next year;

- credit will only be given to students who participate in the practicals;
- students will be required to submit a hardback lab book at the end of the semester in order to achieve the homework mark.

The Student's View - Tests

test: Integration Test

<< < 11 12 13 14 15 16 > >>

This Question: 1 pt This Test: 16 pts Time Remaining: 00:49:30 0 of 16 complete

Evaluate the integral $\int_0^3 9x e^{2x} dx$.

$\int_0^3 9x e^{2x} dx = \square$.

(Round to three decimal places as needed.)

Enter any number or expression in the edit field, then click Next or Previous.

Previous Next Submit

The Student's View - Tests

test: Integration Test

Navigation: 11 12 13 14 15 16

This Question: 1 pt This Test: 16 pts Time Remaining: 00:40:42 1 of 16 complete

Find the integral $\int_0^{2\pi} 4x \cos x \, dx$.

$\int_0^{2\pi} 4x \cos x \, dx =$

(Round to three decimal places as needed.)

Enter any number or expression in the edit field, then click Next or Previous.

Previous Next Submit

The Student's View - Tests

Test Summary

[Legend](#)  

Name Integration Test
Due 04/22/10 4:00pm
Time Spent 00:14:00

Score 0% (0 of 16 pts)

Questions: 16		Correct: 0	Partial Credit: 0	Incorrect: 1	Incomplete: 15
(X) Question 1 (0/1)	(X) Question 2 (0/1)	(X) Question 3 (0/1)			
(X) Question 4 (0/1)	(X) Question 5 (0/1)	(X) Question 6 (0/1)			
(X) Question 7 (0/1)	(X) Question 8 (0/1)	(X) Question 9 (0/1)			
(X) Question 10 (0/1)	(X) Question 11 (0/1)	(X) Question 12 (0/1)			
(X) Question 13 (0/1)	(X) Question 14 (0/1)	✗ Question 15 (0/1)			
(X) Question 16 (0/1)					
					Review Test

How to Create Assessments

How to Create Assessments

The screenshot shows the 'Create Homework and Tests' window in CourseCompass. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links: 'Study Plan Manager', 'Gradebook', and 'MyMathLab Calendar'.
- Chapter Selection:** A dropdown menu currently showing '31. Integration by parts'. Below it is a list of chapters with checkboxes for selection: 31.1.1, 31.1.2, 31.1.3, 31.1.4, 31.1.5, 31.2.1, 31.2.2, 31.2.3, 31.2.4, 31.2.5, 31.2.6, and 31.2.7.
- Section Selection:** A list of sections corresponding to the selected chapter, including: 18. The straight line, 19. The exponential function, 20. The logarithm function, 21. Angles, 22. Introduction to trigonometry, 23. The trigonometrical functions and their graphs, 24. Trigonometrical identities and equations, 25. Solution of triangles, 26. Matrices, 27. Measurement, 28. Gradients of curves, 29. The product and quotient rules of differentiation, 30. Integration and area under curves, 31. Integration by parts (highlighted), 32. Functions of more than one variable and partial differentiation, 33. Tables and charts, 34. Statistics, 35. Probability, 36. Correlation, and 37. Regression.
- Availability:** A section for selecting specific questions, currently showing 'Question 10'.
- Question Details:** A panel on the right showing 'Objective' and 'Points on homework: 0'.
- Buttons:** At the bottom, there are buttons for 'Preview & Add', 'Preview & Remove', 'View student homework', and 'Sort All'.

How to Create Assessments

Preview and Add to Homework

Items in your Homework: 0

Section 31.1

Preview Item: 1 of 12

Origin: Publisher

Availability: Homework, Tests and Quizzes, Study Plan

Item #: 31.1.1

Find the integral $\int 6x \cos 5x \, dx$.

$$\int 6x \cos 5x \, dx = \frac{6}{5}x \sin(5x) + \frac{6}{25} \cos(5x) + c$$

(Use c as the constant of integration.)

Question is complete.

All parts showing

Similar Exercise

Close

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Ask the Publisher

Add Instructor Tip

☒ Show completed problem ☐ Work problem as student

Question points: 1 [Scoring options](#)

Show Answer

Reload

Copy and Edit

Previous

Add

Next

How to Create Assessments

Hide Navig

Study Plan Manager

Gradebook

MyMathLab
Calendar

Availability Options

Available 5/20/2010 12:00 AM

Due 5/27/2010 11:59 PM

☐ Allow students to continue to work and change score after due date
☐ Require password after due date

Chapter Associations Display with assignments from chapter(s): 31 [Change...](#)
Note: This assignment covers material from chapters 31

Access Controls

Prerequisite None Min. score % (optional)

Attempts per question ☒ Limit number of times students can work each question to 1

Presentation Options

Save Values ☒ Save question values and student answers

Printing ☒ Allow students to print this homework assignment

Learning Aids Help Me Solve This, View an Example, Textbook, Ask My Instructor, Instructor Tip [Change...](#)
☐ Show in Review mode only

Scoring Options

Partial Credit ☒ Allow partial credit on questions with multiple parts

Other

How to Create Assessments

Hide Nav

Study Plan Manager

Gradebook

MyMathLab Calendar

Category Weighting

Homework

Quizzes

Tests

Other

Study Plan

Total

20 pts

0 pts

80 pts

0 pts

0 pts

100 points

Assignment Weighting

Show All Homework Quizzes Tests Other

Ch.	Assignment Name		Assignment Weight	Percent of Overall Score	Omit Results
18-20, 23	Homework 1 - Functions (Ch 18,19,20,23,24)	H	10 pts	2.5%	<input type="checkbox"/>
16, 17	Homework 2 - Functions (Ch 16,17)	H	10 pts	2.5%	<input type="checkbox"/>
28	Homework 3 - Differentiation (Ch 28)	H	10 pts	2.5%	<input type="checkbox"/>
29	Homework 4 - Differentiation (Ch 29)	H	10 pts	2.5%	<input type="checkbox"/>
28	Homework 5 - Differentiation (Ch 28)	H	10 pts	2.5%	<input type="checkbox"/>
30	Homework 6 - Integration (Ch. 30)	H	10 pts	2.5%	<input type="checkbox"/>
30	Homework 7 - Integration (Ch. 31)	H	10 pts	2.5%	<input type="checkbox"/>
30	Homework 8 - Integration (Ch. 31)	H	10 pts	2.5%	<input type="checkbox"/>
16, 28, 29	Functions & Differentiation Test	T	10 pts	40%	<input type="checkbox"/>
30, 31	Integration Test	T	10 pts	40%	<input type="checkbox"/>

Navigation icons

The Gradebook

The Gradebook

HW & Test Manager

Study Plan Manager

Gradebook

MyMathLab Calendar

Gradebook Views

All Assignments

Detailed assignment results

[Homework](#)
[Quizzes](#)
[Tests](#)
[Other](#)
[\(Rename this category\)](#)

Overview By Student

Student averages for gradebook categories

Study Plan

Study Plan progress per student

Performance by Chapter

Overall class performance for book chapters

Class Roster

All Students

A-E

F-J

K-Q

P-T

U-Z

[abdullah, mohammed](#)
[Al-Haidary, Dallal](#)
[Bolger, Barry](#)
[Browne, Karina](#)
[Buckley, Ciara](#)
[Burke, Christopher](#)
[Butler, David](#)
[byrne, emmet](#)
[Calvo, John](#)
[cleere, sarah](#)
[Collins, Brendan](#)
[Condell, Nigel](#)
[Cosgrave, Richard](#)
[Cuffe, Sinead](#)
[davis, nicolle](#)
[Delaney, Gary](#)
[Delaney, steven](#)
[Devine, Martina](#)
[Dillon, Colin](#)

[Gorry, Ronan](#)
[Grant, Sarah](#)
[Grogan, Anne](#)
[Grogan, Ciara](#)
[halligan, ian](#)
[Hannon, Danielle](#)
[Harty, Liam](#)
[Hayes, Grainne](#)
[Healy, Shane](#)
[Hoban, Robert](#)
[hoey, anton](#)
[Hogan, Patrick](#)
[Houlihan, Eoin](#)
[Hoynes, Miriam](#)
[hyland, rachel](#)
[keating, laura](#)
[Kelly, Sarah](#)
[Kenny, Declan](#)
[Kenny, Michelle](#)

[Mundy, Cara](#)
[Murphy, Rachel](#)
[Murray, Aidan](#)
[Nugent, Laura](#)
[O Donoghue, John](#)
[o farrell, michael](#)
[O Meara, Roisin](#)
[O'Dea, Tanva](#)
[O'Dwyer, Denis](#)
[O'Keeffe, Ellen](#)
[O'Riordan, Tierney](#)
[pierce, louise](#)
[power, aaron](#)
[Power, Danielle](#)
[Power, Jade](#)
[Power, Marian](#)
[Power, Orla](#)
[Power, Paul](#)
[Reid, Damien](#)

The Gradebook

Maths for Scientists 2010 [95] > [Back to Gradebook](#)

[Previous Student](#) ██████████ - [Email Student](#) [Next Student](#)

Results [Legend](#) 🖨️ ?


Overall Score: **70.4%**
[Show details](#)

☒ Last 2 Weeks
 ☐ Last month
 ☒ Entire course to date
 All Assignments ▼
 Study Plan Results

Results from entire course to date.

Results from entire course to date.	Correct/ Total	Score	Time Spent	Date Worked	Actions
📌 Integration Test Review	10.8/13*	83.1%	45m	04/22/10 2:59pm	-- Choose -- Go
H Homework 8 - Integration (Ch. 31) Review	14/14	100%	2h 30m	04/04/10 3:07pm	-- Choose -- Go
H Homework 7 - Integration (Ch. 31) Review	17/20	85%	3h 39m	03/25/10 8:50pm	-- Choose -- Go
H Homework 6 - Integration (Ch. 30) Review	17/20	85%	3h 19m	03/18/10 4:52pm	-- Choose -- Go
📌 Functions & Differentiation Test Review	10.5/20*	52.5%	50m	03/09/10 2:11pm	-- Choose -- Go
H Homework 5 - Differentiation (Ch 28) Review	7.7/10	76.7%	2h 44m	03/05/10 12:30pm	-- Choose -- Go
H Homework 4 - Differentiation (Ch 29) Review	21/25	84%	3h 48m	02/25/10 2:22pm	-- Choose -- Go
H Homework 3 - Differentiation (Ch 28) Review	29/30*	96.7%	3h 2m	02/08/10	-- Choose -- Go

The Gradebook



[Help](#) [Support](#) [Browser Check](#)
Padraig Kirwan 5/20/10 2:19 PM

Hide Navigation Buttons

MyMathLab

Settings

Announcement Manager



HW & Test Manager

Study Plan Manager


Gradebook

MyMathLab Calendar

Review Homework

[Legend](#)  

Name Homework 6 - Integration (Ch. 30)
Due 03/19/10 6:00pm
Last Worked 03/18/10 4:52pm
Current Score 85% (17 points out of 20)
Number of times you can work each question: unlimited

 **Changes will NOT affect your score.**

Questions: 20	Scored: 20	Correct: 17	Partial Credit: 0	Incorrect: 3
✓ Question 1 (1/1)	✓ Question 2 (1/1)	✓ Question 3 (1/1)		
✓ Question 4 (1/1)	✓ Question 5 (1/1)	✗ Question 6 (0/1)		
✓ Question 7 (1/1)	✓ Question 8 (1/1)	✓ Question 9 (1/1)		
✓ Question 10 (1/1)	✓ Question 11 (1/1)	✓ Question 12 (1/1)		
✓ Question 13 (1/1)	✓ Question 14 (1/1)	✓ Question 15 (1/1)		
✓ Question 16 (1/1)	✗ Question 17 (0/1)	✓ Question 18 (1/1)		
✓ Question 19 (1/1)	✗ Question 20 (0/1)			

OK



The Gradebook

MyMathLab

Viewing Results for [redacted]

Review: Homework 6 - Integration (Ch. 30) Overview

Exercise Score: 0 of 1 pt Assignment Score: 85% (17 of 20 pts) 20 of 20 complete

Find $\int \frac{4}{x}(x+2) \, dx$.

$\int \frac{4}{x}(x+2) \, dx = 4x + 8 \ln |x + c|$.

(Use c as the constant of integration.) You answered $x+2 \ln x+c$

Help Me Solve This
Textbook
Ask My Instructor
Print
Add Comment
Ask the Publisher

Question is complete. Roll your mouse over the red indicators to see incorrect answers.

All parts showing

Similar Exercise Close

The Gradebook

MyMathLab Calendar	Class Roster	Overall Score	# of Results	Homework 6 - Integration ...	Homework 7 - Integration ...	Homework 8 - Integration ...	Functions & Differentiat...	Integration Test
	Percent of overall score	--	--	2.2%	2.2%	2.2%	40%	40%
	Class Average	47.5%	--	70.1% IA	57.8% IA	72.9% IA	42.7% IA	65% IA
	Class Median	51.4%	--	65%	50%	85.7%	40%	71.5%
	# of Results	--	833	84	76	77	87	79
				Change Scores	Change Scores	Change Scores	Change Scores	Change Scores
		71.8%	10	95%	90%	100%	71%*	75.4%*
		94.1%	10	100%	100%	100%	92.5%*	98.5%*
		32.5%	10	75%	50%	92.9%	14%*	33.1%*
		36.7%	10	65%	40%	50%	31.5%*	36.9%*
	49.8%	7	0%	past due	14.3%	40%*	75.4%*	
	96.2%	10	100%	90%	92.9%	97.5%*	100%*	
	74.9%	10	90%	90%	78.6%	59%*	92.3%*	
	28.7%	10	60%	30%	100%	13%*	29.2%*	
	71.6%	10	100%	85%	92.9%	54%*	88.5%*	
	54.3%	10	90%	85%	100%	36%*	61.5%*	
	59.9%	10	100%	50%	92.9%	42.5%*	73.1%*	
	67.1%	10	95%	60%	100%	51.5%*	83.1%*	
	76.8%	10	100%	100%	100%	53%*	96.2%*	
	81.8%	10	80%	55%	85.7%	69.5%*	100%*	
	35.9%	10	60%	5%	14.3%	21%*	53.8%*	
	62.7%	8	95%	85%	0%	60%*	76.9%*	
	28.5%	9	65%	60%	57.1%	7.5%*	44.6%*	
	0%	0	past due	past due	past due	past due	past due	

The Gradebook

Item Analysis

Legend  

Name Homework 7 - Integration (Ch. 31)

of students submitted 76

Date Due 03/26/10 6:00pm

[Export student details](#)

Results submitted by an instructor are not included in this data.

[Export class summary](#) Data delimiter: comma [Change...](#)

#	Question ID	Section	Correct	Partial Credit	Incorrect	Not Attempted	Avg Time Spent	Median Time Spent
1	30.4.2	Definite integrals	68	0	8	0	16m 32s	9m 52s
2	30.4.4	Definite integrals	68	0	5	3	8m 40s	6m 2s
3	30.4.6	Definite integrals	61	0	10	5	9m 50s	6m 4s
4	30.4.8	Definite integrals	68	0	2	6	5m 9s	3m 44s
5	30.4.9	Definite integrals	65	0	4	7	5m 39s	3m 56s
6	30.4.11	Definite integrals	50	0	20	6	13m 16s	7m 58s
7	30.4.14	Definite integrals	55	0	13	8	7m 51s	4m 47s
8	30.4.16	Definite integrals	57	0	8	11	6m 33s	4m 13s
9	30.4.18	Definite integrals	36	0	17	23	14m 28s	7m 20s
10	30.4.20	Definite integrals	49	0	6	21	6m 34s	4m 2s
11	30.4.23	Definite integrals	30	0	16	30	9m 38s	5m 37s
12	30.4.25	Definite integrals	25	0	16	35	10m 6s	6m 40s
13	30.4.27	Definite integrals	32	0	14	30	7m 7s	3m 42s
14	30.5.1	Areas under curves	39	0	3	34	5m 25s	2m 52s
15	30.5.2	Areas under curves	12	0	24	40	13m 13s	3m 49s
16	30.5.3	Areas under curves	34	0	6	36	3m 9s	26s
17	30.5.4	Areas under curves	36	0	1	39	2m 4s	19s
18	30.5.5	Areas under curves	28	0	7	41	4m 21s	10s
19	30.5.6	Areas under curves	26	0	2	48	1m 21s	26s

The Gradebook

HW & Test Manager

Study Plan Manager

Gradebook

MyMathLab Calendar

Gradebook Views

All Assignments

Detailed assignment results

[Homework](#)
[Quizzes](#)
[Tests](#)
[Other](#)
[\(Rename this category\)](#)

Overview By Student

Student averages for gradebook categories

Study Plan

Study Plan progress per student

Performance by Chapter

Overall class performance for book chapters

Class Roster

All Students

A-E

F-J

K-Q

P-T

U-Z

[abdullah, mohammed](#)
[Al-Haidary, Dallal](#)
[Bolger, Barry](#)
[Browne, Karina](#)
[Buckley, Ciara](#)
[Burke, Christopher](#)
[Butler, David](#)
[byrne, emmet](#)
[Calvo, John](#)
[cleere, sarah](#)
[Collins, Brendan](#)
[Condell, Nigel](#)
[Cosgrave, Richard](#)
[Cuffe, Sinead](#)
[davis, nicolle](#)
[Delaney, Gary](#)
[Delaney, steven](#)
[Devine, Martina](#)
[Dillon, Colin](#)

[Gorry, Ronan](#)
[Grant, Sarah](#)
[Grogan, Anne](#)
[Grogan, Ciara](#)
[halligan, ian](#)
[Hannon, Danielle](#)
[Harty, Liam](#)
[Hayes, Grainne](#)
[Healy, Shane](#)
[Hoban, Robert](#)
[hoey, anton](#)
[Hogan, Patrick](#)
[Houlihan, Eoin](#)
[Hoynes, Miriam](#)
[hyland, rachel](#)
[keating, laura](#)
[Kelly, Sarah](#)
[Kennedy, Declan](#)
[Kennedy, Michelle](#)

[Mundy, Cara](#)
[Murphy, Rachel](#)
[Murray, Aidan](#)
[Nugent, Laura](#)
[O'Donoghue, John](#)
[o'farrell, michael](#)
[O'Meara, Roisin](#)
[O'Dea, Tanva](#)
[O'Dwyer, Denis](#)
[O'Keeffe, Ellen](#)
[O'Riordan, Tierney](#)
[pierce, louise](#)
[power, aaron](#)
[Power, Danielle](#)
[Power, Jade](#)
[Power, Marian](#)
[Power, Orla](#)
[Power, Paul](#)
[Reid, Damien](#)

A Panacea

A Panacea?

Serendipity in 2009

- Tony Croft keynote address to Conference in WIT
- Pearson mailshot in June.

A Panacea?

Serendipity in 2009

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- Formalised approach for Semester 2 module, Maths for Scientists - 20% of final mark for Homeworks.

A Panacea?

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- Biology lecturer adopts similar approach.
- **40% failure rate.**

A Panacea?

What about 2010?

- 10% for 8 Homework assignments.
- 20% for online Differentiation exam.
- 20% for online Integration exam.
- 50% for "in context" final exam.

A Panacea?

What about 2010?

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- 20% for online Integration exam.
- 50% for "in context" final exam.

What about 2010?

- Biology, Chemistry and Physics lecturers adopt a similar approach.
- Structured approach to tutorials in Maths, Physics, Biology and Chemistry.
- Pearson do a block book deal.
- **30% failure rate.**

A Panacea?

What about 2010?

- 10% for 8 Homework assignments.
- 20% for online Differentiation exam.
- 20% for online Integration exam.
- 50% for "in context" final exam.

SSCIE C-1	Monday	Tuesday	Wednesday	Thursday	Friday
9:15	ICT PRACTICAL Group 5 - M. Alkhamisi (1711)	PHYSICS LECTURE Censorio & Koutsomph (0711)	PHYSICS LECTURE Censorio & Koutsomph (0711)	MATHS LECTURE Patsios & Lewis (0711)	
10:15	ICT PRACTICAL Group 5 - M. Alkhamisi (1721)	PHYSICS LECTURE Censorio & Koutsomph (0711)	PHYSICS LECTURE Censorio & Koutsomph (0711)	PHYSICS LECTURE Censorio & Koutsomph (0711)	
11:15	ICT PRACTICAL Group 5 - M. Alkhamisi (1721)	BIOLOGY LECTURE Roberts & Williams (0911)	MATHS LECTURE Patsios & Lewis (0911)	BIOLOGY LECTURE Roberts & Williams (0911)	
12:15	CRITICAL THINKING AND LEARNING LECTURE Elmore (Drama) (0811)				
1:15		CRITICAL THINKING AND LEARNING LECTURE Elmore (Drama) (1011)		MATHS LECTURE Patsios & Lewis (0911)	
2:15					
3:15	11 Maths P-Prize (17 noon) 11 Biol & Chem (17 noon) 11 Phys & A (17 noon) 11 Chem & A (17 noon)	11 Phys & A (17 noon) 11 Biol & Chem (17 noon) 11 Maths P-Prize (17 noon) 11 Maths P-Prize (17 noon)			
4:15	11 Chem & A (17 noon) 11 Maths P-Prize (17 noon) 11 Biol & Chem (17 noon) 11 Phys & A (17 noon)	11 Biol & Chem (17 noon) 11 Phys & A (17 noon) 11 Maths P-Prize (17 noon) 11 Maths P-Prize (17 noon)			

What about 2010?

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My Assessment Viewpoint

On successful completion of this module, a student should

- 1 be able to differentiate a variety of scientific functions;
- 2 be able to apply differentiation to elementary applications;

Assessments

- Online test (50 minutes) assesses LOs 1 & 2.

My Assessment Viewpoint

On successful completion of this module, a student should

- 1 be able to differentiate a variety of scientific functions;
- 2 be able to apply differentiation to elementary applications;
- 3 be able to integrate a variety of scientific functions;
- 4 be able to apply integration to problems involving area;

Assessments

- Online test (50 minutes) assesses LOs 1 & 2.
- Online test (50 minutes) assesses LOs 3 & 4.

My Assessment Viewpoint

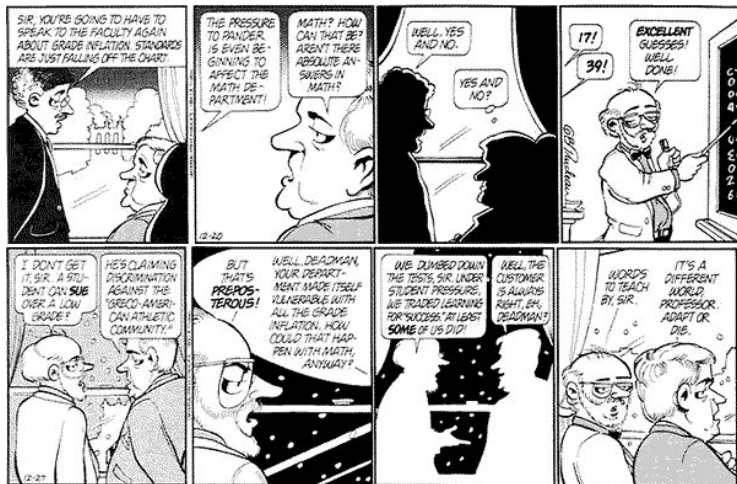
On successful completion of this module, a student should

- 1 be able to differentiate a variety of scientific functions;
- 2 be able to apply differentiation to elementary applications;
- 3 be able to integrate a variety of scientific functions;
- 4 be able to apply integration to problems involving area;
- 5 be able to apply differentiation and integration to a variety of real-world scientific problems;
- 6 be able to solve differential equations in a scientific context.

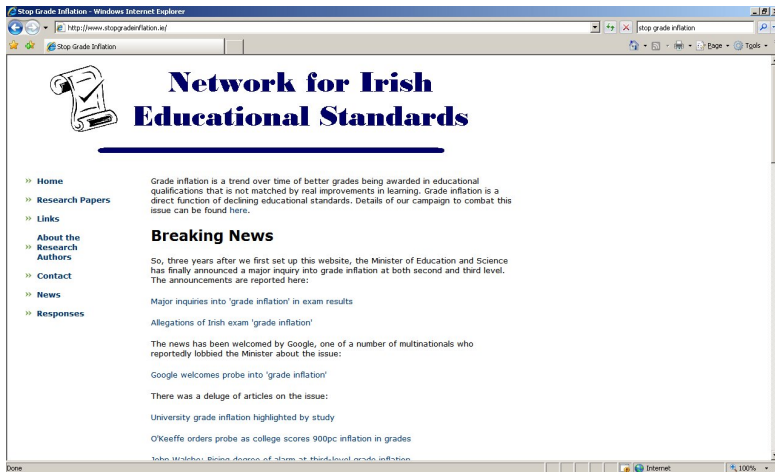
Assessments

- Online test (50 minutes) assesses LOs 1 & 2.
- Online test (50 minutes) assesses LOs 3 & 4.
- Online test (2 Hours) assesses LOs 5 & 6.

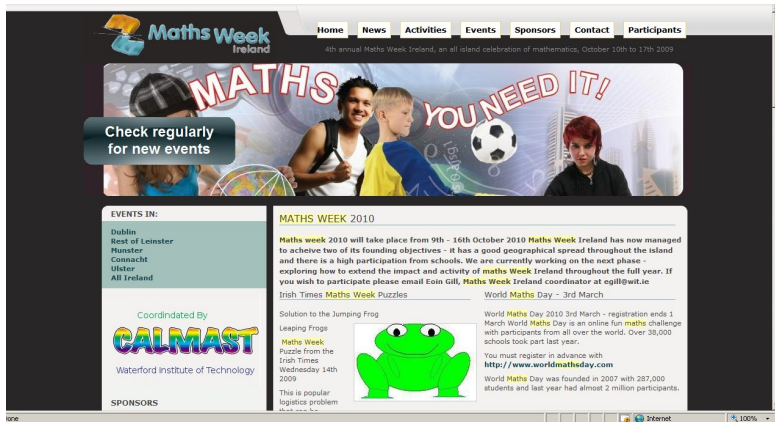
Failure is an option



The Political Economy of Educational Standards



Please Get Involved



The screenshot shows the homepage of the Maths Week Ireland website. At the top, there is a navigation bar with links: Home, News, Activities, Events, Sponsors, Contact, and Participants. Below the navigation bar, a banner features the text "MATHS YOU NEED IT!" in large, stylized letters, with images of children and a soccer ball. A call to action button says "Check regularly for new events".

EVENTS IN:

- Dublin
- Rest of Leinster
- Munster
- Connacht
- Ulster
- All Ireland

Coordinated By
CALMAST
Waterford Institute of Technology

SPONSORS

MATHS WEEK 2010

Maths week 2010 will take place from 9th - 16th October 2010 **Maths Week** Ireland has now managed to achieve two of its founding objectives - it has a good geographical spread throughout the island and there is a high participation from schools. We are currently working on the next phase - exploring how to extend the impact and activity of **maths Week** Ireland throughout the full year. If you wish to participate please email Eoin Gill, **Maths Week** Ireland coordinator at egill@wit.ie

Irish Times **Maths Week** Puzzles

Solution to the Jumping Frog

Leaping Frogs

Maths Week
Puzzle from the Irish Times
Wednesday 14th 2009

This is popular logistics problem

World **Maths** Day - 3rd March

World **Maths** Day 2010 3rd March - registration ends 1 March World **Maths** Day is an online fun maths challenge with participants from all over the world. Over 30,000 schools took part last year.

You must register in advance with <http://www.worldmathsday.com>

World **Maths** Day was founded in 2007 with 287,000 students and last year had almost 2 million participants.