

Interactive online tuition



MathsNet

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A LEVEL

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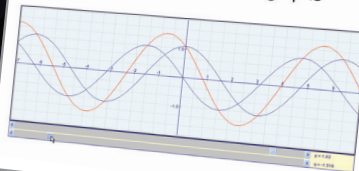
Achieve Better Grades

- A-level maths explained and illustrated - over 7900 unique pages of content!
- Ideal for student self tuition, revision, testing and teacher demonstrations.
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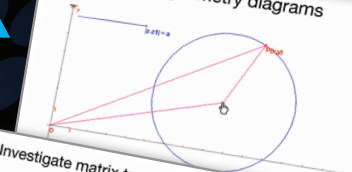
Drag & drop algebraic steps in logical order to form a deductive proof

1 Let a and b be two even numbers:
2 therefore a = 2m where m is an integer
3 and b = 2n where n is an integer
4 a + b = 2m + 2n
5 which is an even number
6 Add a and b:
7 therefore a + b is an even number
8 Factorise:
9 a + b = 2n + 2m

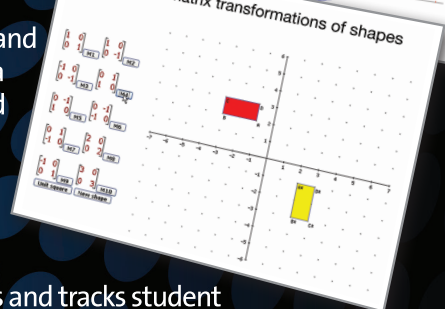
Wide range of interactive graphs



Interactive geometry diagrams



Investigate matrix transformations of shapes



Step-by-step solutions to algebraic problems

Express $f(x)$ in partial fractions, where
 $f(x) = \frac{x}{(x-7)(x-6)}$

$$\begin{aligned}\frac{x}{(x-7)(x-6)} &= \frac{A}{x-7} + \frac{B}{x-6} \\ x &= A(x-6) + B(x-7) \\ x=6 &= 6=B(-1) \\ &= B=-6 \\ x=7 &= 7=A(1) \\ &= A=7 \\ f(x) &= \frac{7}{x-7} + \frac{-6}{x-6}\end{aligned}$$

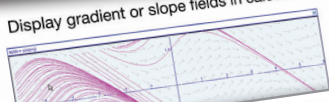
Change Restart [Mark] [Clear] [Green] [Change] [Restart]

Find $\frac{dy}{dx}$ in each of the following cases:

- (a) $y = 11x^{-4}$
(b) $y = \sqrt{x}$
(c) $y = x(x+4)(1-3x)$

(a) $\frac{dy}{dx} = -44x^{-5}$ [MIAI]
(b) $y = x^3 \Rightarrow \frac{dy}{dx} = \frac{3}{2}x^{\frac{1}{2}}$ [BS]
(c) $y = x(x+4)(1-3x) \Rightarrow y = (x^2+4x)(1-3x)$ [MIAI]
 $\Rightarrow y = -3x^3 - 11x^2 + 4x$ [MIAI]
 $\Rightarrow \frac{dy}{dx} = -9x^2 - 22x + 4$ [MIAI]

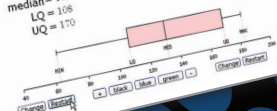
Display gradient or slope fields in calculus



View interactive statistical diagrams such as box and whisker plots

Draw a box plot to show these data
63, 121, 152, 150, 108, 102, 170.

min = 63
max = 170
median = 102
LQ = 108
UQ = 170



Helps Maths Teachers Teach

- Perfect Interactive Whiteboard demonstrations - bring topics alive!
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See also www.mathsnetgcse.com

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Each test provides feedback immediately upon completion. Each question is marked right or wrong, and a score given as a percentage. This score is graded with a colour ranging from red (0%) to green (100%). The test can be taken again but the questions, and therefore answers, will change. See progress topic by topic and in relation to class average and variation.

See the Help section at www.mathsnetalevel.com to see just how easy to use, helpful and empowering the assessment facilities are, and how to get started.

View test results by various groupings, either by student, by class, by module or by specific question. The listing by specific question will, in addition, show marks for each individual part of the test, which lets the teacher identify specific areas that are causing difficulty, and even previous scores.

Simply click to download the data to Excel. See full stats on student use. Check the Redo box to ask the student to redo the task.

Results and feedback for the teacher

Student Scores by Page ID

Page ID: 6453 Module: 2 Type: Multi Choice Level: 5

Section: Algebra and Functions Topic: Factor Theorem

Score key: Download:

Student	Date	Score%	Questions
Ann	22 Nov, 2009	100	✓✓✓✓✓✓✓✓✓✓
Bill	21 Nov, 2009	80	✓✓✓✗✓✓✓✗
Charles	21 Nov, 2009	90	✓✓✗✓✓✓✓✓
Dianna	20 Nov, 2009	90	✓✓✓✓✗✓✓✓✓

Results and feedback for the student

Your Test Scores

M	Section	Topic	L	ID	T	Date	Score%	Questions	Redo
3	Trigonometry	Radians	1	285	D	19 Nov, 2009	100	✓✓✓✓✓✓	
3	Trigonometry	Radians	3	6512	M	19 Nov, 2009	80	✓✓✓✓✗✓✓	R
3	Trigonometry	Radians	7	6577	M	19 Nov, 2009	75	✓✓✓✗	R
3	Trigonometry	Sine and cosine	3	6458	M	20 Nov, 2009	100	✓✓✓✓✓✓✓✓	
3	Trigonometry	Trig equations	4	6513	M	22 Nov, 2009	80	✓✓✓✓✗✓✓✓	

Students' Comments

"This site is sooooo helpful and informative, and contributed to me going from a E to a A in my AS Levels."

"I have been using the interactive AS and A2 website regularly since my C1 exam."

"The worked exam questions have been extremely helpful and I owe my success to this website."

"Just want to say what a wonderful job you have done here. It has helped me so much in doing my A Levels, in my first year and doing further maths, got As in January on C1 and C2 and to be honest a lot of this is down to this site as it is so easy to learn from. Anyway thanks again for the amazing site, keep up the good work :)"

"This site has been invaluable to me through previous years of A level and further more important in the next few months."

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