

## Differentiation Past Papers Unit 1 Outcome 3 Mathsrevision

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### Differentiation Past Papers Unit 1

Differentiation Past Papers Unit 1 Outcome 3 1. Differentiate  $2^3 p^x$  with respect to  $x$ . A.  $6 p^x$  B.  $3 \cdot 2^3 p^x$  C.  $4 \cdot 3^3 p^x$  D.  $2 \cdot 3^3 p^x$  2 Key Outcome Grade Facility Disc. Calculator Content Source D 1.3 C 0.83 0.38 NC C2, C3 HSN 091 PSfrag replacements  $Ox y$  [SQA] 2. Given  $f(x) = 3x^2(2x - 1)$ , nd  $f'(x)$ . 3 PSfrag replacements  $Ox y$  [SQA] 3.

### Differentiation Past Papers Unit 1 Outcome 3

DIFFERENTIATION ©MathsDIY.com Page 1 of 2 DIFFERENTIATION AS Unit 1: Pure Mathematics A WJEC past paper questions: 2010 - 2017 Total marks available 100 (approximately 2 hours) 1. a)

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## Pure Mathematics 1 Differentiation Unit 1

Differentiation Past Papers Unit 1 Outcome 3 1. Differentiate  $2x^3$  with respect to  $x$ . A.  $6x^2$  B.  $3x^2$  C.  $4x^2$  D.  $2x^2$  [SQA] 2. Given  $f(x) = 3x^2(2x + 1)$ , find  $f'(1)$ . 3 [SQA] 3. Find the coordinates of the point on the curve  $y = 2x^2 - 7x + 10$  where the tangent to the curve makes an angle of  $45^\circ$  with the positive direction of the  $x$ -axis. 4 [SQA] 4. If  $y = x^2 + x$ , show that  $\frac{dy}{dx} = 1 + 2x$ .

## Differentiation Past Papers Unit 1 Outcome 3

DIFFERENTIATION ©MathsDIY.com Page 1 of 2 DIFFERENTIATION AS Unit 1: Pure Mathematics A WJEC past paper questions: 2010 - 2017 Total marks available 100 (approximately 2 hours) 1. a) Given that  $\frac{d}{dx}(3x^2 - 7x - 5) = 6x - 7$ , find  $\frac{d}{dx}(3x^2 - 7x - 5)$  from first principles. (5) b) Given that  $\frac{d}{dx}(x^2 + 5x) = 2x + 5$  and  $\frac{d}{dx}(x^2) = 2x$

## DIFFERENTIATION - MathsDIY

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Advanced Higher Topic Past Papers —Differentiation Unit 1 Outcome 2 (4) 3 marks 3, 1 marks 3 marks 3 marks 3 marks 1 mark 2 marks 3 marks 3 marks 3 marks 1 mark 1 mark 2001 A2. Differentiate with respect to  $x$  2002 co  $t^2x$  (b)  $g(x) = e^{A4}$ .

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