



EXAM PAPERS PRACTICE

Boost your performance and confidence with these topic-based exam questions

Practice questions created by actual examiners and assessment experts

Detailed mark scheme

Suitable for all boards

Designed to test your ability and thoroughly prepare you

2002

XVIII

1583

Time allowed

Score

Percentage

/

%

Maths

**AQA
AS & A LEVEL**

Topic Questions

3.8 G: Differentiation



(b) Given that $y = \frac{3x+1}{2x+1}$, show that $\frac{dy}{dx} = \frac{1}{(2x+1)^2}$. (3 marks)

2 (a) Find $\frac{dy}{dx}$ when $y = (3x-1)^{10}$. (2 marks)

6 (a) Find $\frac{dy}{dx}$ when:

(i) $y = (4x^2 + 3x + 2)^{10}$; (2 marks)

2 (a) Differentiate $(x-1)^4$ with respect to x . (1 mark)

Why so short?

Because the techniques learnt are embedded and checked in questions on other topics.