Core 3 Differentiation Questions

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

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

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

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

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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.