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## Differentiation | Past Paper Question | C1 Edexcel June 2014 Q7a

Differentiate with respect to  $x$ , giving each answer in its simplest form.

(a)  $(1 - 2x)^2$       (3)

$$\begin{aligned}\text{let } y &= (1 - 2x)^2 \\ &= (1 - 2x)(1 - 2x) \\ &= 1 - 4x + 4x^2\end{aligned}$$

$$\therefore \frac{dy}{dx} = -4 + 8x$$

$$\begin{aligned}\frac{d}{dx} (1 - 2x)^2 &= \frac{d}{dx} (1 - 4x + 4x^2) \\ &= -4 + 8x\end{aligned}$$

With the acknowledgement of [Exam Solutions](#).  
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