

## M2 sample paper solution

$$\begin{aligned} 1. \quad \frac{d}{dx}(\sqrt{2x}) &= \lim_{\Delta x \rightarrow 0} \frac{\sqrt{2(x+\Delta x)} - \sqrt{2x}}{\Delta x} \\ &= \lim_{\Delta x \rightarrow 0} \frac{\sqrt{2(x+\Delta x)} - \sqrt{2x}}{\Delta x} \cdot \frac{\sqrt{2(x+\Delta x)} + \sqrt{2x}}{\sqrt{2(x+\Delta x)} + \sqrt{2x}} \\ &= \lim_{\Delta x \rightarrow 0} \frac{1}{\Delta x} \cdot \frac{2(x+\Delta x) - 2x}{\sqrt{2(x+\Delta x)} + \sqrt{2x}} \\ &= \lim_{\Delta x \rightarrow 0} \frac{1}{\Delta x} \cdot \frac{2\Delta x}{\sqrt{2(x+\Delta x)} + \sqrt{2x}} \\ &= \lim_{\Delta x \rightarrow 0} \frac{2}{\sqrt{2(x+\Delta x)} + \sqrt{2x}} \\ &= \frac{1}{\sqrt{2x}} \end{aligned}$$

2. Let  $V$  cm<sup>3</sup>,  $r$  cm and  $t$  s be the volume, radius and time respectively.

$$V = \frac{4}{3} \pi r^3$$

Differentiate both sides w.r.t.  $r$ ,

$$\begin{aligned} \frac{dV}{dr} &= \frac{4}{3} \pi \frac{d(r^3)}{dr} \\ &= \frac{4}{3} \pi (3r^2) \frac{dr}{dr} \\ &= 4\pi r^2 \frac{dr}{dr} \end{aligned}$$

$$\text{Put } \frac{dV}{dr} = -4 \text{ and } r = 5,$$

$$-4 = 4\pi(5)^2 \frac{dr}{dr}$$

$$\frac{dr}{dr} = -\frac{1}{25\pi}$$

When its radius is 5 cm, the rate of change of radius is  $-\frac{1}{25\pi}$  cm s<sup>-1</sup>.

3. [Method 1 – Integration by substitution]

$$\frac{dy}{dx} = 2x \ln(x^2 + 1)$$

$$y = \int 2x \ln(x^2 + 1) dx$$

$$= \int \ln(x^2 + 1) d(x^2 + 1)$$

$$= (x^2 + 1) \ln(x^2 + 1) - (x^2 + 1) + C$$

Since the curve passes through (0, 1), put  $x = 0$  and  $y = 1$ ,

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**JE Gale**



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