

Q6. a) Differentiate  $(2x+4)^2$  from first principles w.r.t  $x$   
 $\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = \lim_{h \rightarrow 0} \frac{(2x+2h+4)^2 - (2x+4)^2}{h}$

$$= \lim_{h \rightarrow 0} \left[ \frac{4x^2 + 4xh + 8x + 4h^2 + 8h + 8x + 8h + 16 - (4x^2 + 16x + 16)}{h} \right]$$

$$= \lim_{h \rightarrow 0} \left[ \frac{4h^2 + 8hx + 16h}{h} \right] = \lim_{h \rightarrow 0} (4h + 8x + 16)$$

$$= 8x + 16$$

b) i) If  $y = x \sin\left(\frac{1}{x}\right)$ , find  $\frac{dy}{dx}$

$$\frac{dy}{dx} = \sin\left(\frac{1}{x}\right) + x \left(\cos\left(\frac{1}{x}\right)\right) \cdot \left(-\frac{1}{x^2}\right)$$

$$= \sin\left(\frac{1}{x}\right) - \frac{1}{x} \cos \frac{1}{x}$$

ii) Find the slope of the tangent to the curve  $y = x \sin\left(\frac{1}{x}\right)$ , when  $x = \frac{\pi}{4}$ .  
Give your answer correct to two decimal places.

Sub in  $x = \frac{\pi}{4}$  to the solution to part i)

$$\frac{dy}{dx} = \sin\left(\frac{4}{\pi}\right) - \frac{\pi}{4} \cos \frac{\pi}{4}$$

$$= \frac{\sqrt{2}}{2} - \frac{\pi}{4} \cdot \frac{\sqrt{2}}{2} = \left(1 - \frac{\pi}{4}\right) \left(\frac{\sqrt{2}}{2}\right)$$

$$\text{or } \frac{dy}{dx} = 0.15$$

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