

## Question 6

6.1

6.1.1.

$$\begin{aligned}
 y &= \frac{1}{2}x^{-4} - 6x^{\frac{1}{3}} - \pi \\
 \frac{dy}{dx} &= \frac{1}{2} \cdot -4x^{-5} - 6 \cdot \frac{1}{3}x^{-2/3} - 0 \\
 &= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}} \\
 &= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}}
 \end{aligned}$$

6.1.2



$$\begin{aligned}
 y &= (2 - \sqrt{x})^2 \\
 \frac{dy}{dx} &= 2(2 - \sqrt{x})\left(-\frac{1}{2}x^{-1/2}\right) \\
 &= 2(2 - \sqrt{x}) \cdot -\frac{1}{2\sqrt{x}} \\
 &= -\frac{(2 - \sqrt{x})}{\sqrt{x}}
 \end{aligned}$$

6.2

$$\begin{aligned}
 y &= x^2 + 4x - 8 \\
 \frac{dy}{dx} &= 2x + 4
 \end{aligned}$$

$$\begin{aligned}
 \text{where } x &= -8, \text{ gradient} = 2(-8) + 4 \\
 &= -12
 \end{aligned}$$

# Mathematics Memo March 2014 Civil Engineering N3

**JG Myers**



**Mathematics Memo March 2014 Civil Engineering N3:**

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