

**Outcome 1 - Completing the Square**

Write the following quadratics
in the form...

$$y = a(x + b)^2 + c.$$

$$\text{1} \quad y = 5x^2 - 40x + 15 \quad \text{2} \quad y = 4x^2 + 24x - 23$$

$$\text{3} \quad y = 2x^2 - 8x + 27 \quad \text{4} \quad y = 8x^2 - 16x - 12$$

$$\text{5} \quad y = 9x^2 - 36x + 79 \quad \text{6} \quad y = 6x^2 + 24x + 23$$

$$\text{7} \quad y = 10x^2 + 100x + 99 \quad \text{8} \quad y = 3x^2 + 24x - 7$$

$$\text{9} \quad y = 2x^2 + 32x + 43 \quad \text{10} \quad y = 2x^2 - 6x + 1$$