



Air maths tuition

Interact, engage and perform

Completing The Square (1 of 3)

Express the following in the form $(x+a)^2 + b$

$$x^2 + 8x - 1 \equiv (x + 4)^2 - 16 - 1$$

$$\equiv (x + 4)^2 - 17$$

$$x^2 - 10x + 3 \equiv (x - 5)^2 - 25 + 3$$

$$\equiv (x - 5)^2 - 22$$

$$x^2 + 3x - 2 \equiv \left(x + \frac{3}{2}\right)^2 - \frac{9}{4} - 2$$

$$\equiv \left(x + \frac{3}{2}\right)^2 - \frac{17}{4}$$

$$(x+4)(x+4) \equiv x^2 + 8x + 16$$

$$(x-5)(x-5) \equiv x^2 - 10x + 25$$

$$\left(x + \frac{3}{2}\right)\left(x + \frac{3}{2}\right) \equiv x^2 + 3x + \frac{9}{4}$$

$$x^2 + 12x - 5 \equiv (x + 6)^2 - 36 - 5$$

$$\equiv (x + 6)^2 - 41$$

$$x^2 - 5x + 1 \equiv \left(x - \frac{5}{2}\right)^2 - \frac{25}{4} + 1$$

$$\equiv \left(x - \frac{5}{2}\right)^2 - \frac{21}{4}$$

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