



SCAN ME

Completing the Square



SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

1 Express $x^2 + 6x + 11$ in the form $(x + a)^2 + b$ [2 marks]

Answer _____

2 Express $x^2 + 8x + 30$ in the form $(x + a)^2 + b$ [2 marks]

Answer _____

3 Express $x^2 + 4x + 1$ in the form $(x + a)^2 - b$ [2 marks]

Answer _____





4 Express $x^2 - 10x + 12$ in the form $(x - a)^2 - b$ [2 marks]

Answer _____

5 Express $x^2 - 2x + 13$ in the form $(x - a)^2 + b$ [2 marks]

Answer _____

6 Express $x^2 - 12x - 16$ in the form $(x - a)^2 + b$ [2 marks]

Answer _____

7 Express $x^2 - 20x$ in the form $(x - a)^2 - b$ [2 marks]

Answer _____





8 Express $x^2 + 3x + 5$ in the form $(x + a)^2 + b$ [3 marks]

Answer _____

9 Express $x^2 - 5x + 7$ in the form $(x - a)^2 + b$ [3 marks]

Answer _____

10 Express $x^2 + 9x + 3$ in the form $(x + a)^2 - b$ [3 marks]

Answer _____

11 Express $x^2 - x - 2.75$ in the form $(x - a)^2 - b$ [3 marks]

Answer _____

$\frac{\quad}{20}$

Turn over ►





12 Here is an identity

$$x^2 + px + 32 \equiv (x + 5)^2 - q$$

Work out the values of p and q .

[3 marks]

$$p = \underline{\hspace{2cm}} \qquad q = \underline{\hspace{2cm}}$$

13 Here is an identity

$$x^2 - 8x + p \equiv (x + q)^2 - 4$$

Work out the values of p and q .

[3 marks]

$$p = \underline{\hspace{2cm}} \qquad q = \underline{\hspace{2cm}}$$

$\frac{\quad}{6}$

