



SCAN ME

Completing the Square



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REVISE THIS TOPIC

CHECK YOUR ANSWERS

1 Write $x^2 + 6x + 11$ in the form $(x + a)^2 + b$

.....
(Total for Question 1 is 2 marks)

2 Write $x^2 + 8x + 30$ in the form $(x + a)^2 + b$

.....
(Total for Question 2 is 2 marks)

3 Write $x^2 + 4x + 1$ in the form $(x + a)^2 - b$

.....
(Total for Question 3 is 2 marks)



4 Write $x^2 - 10x + 12$ in the form $(x - a)^2 - b$

.....
(Total for Question 4 is 2 marks)

5 Write $x^2 - 2x + 13$ in the form $(x - a)^2 + b$

.....
(Total for Question 5 is 2 marks)

6 Write $x^2 - 12x - 16$ in the form $(x - a)^2 + b$

.....
(Total for Question 6 is 2 marks)

7 Write $x^2 - 20x$ in the form $(x - a)^2 - b$

.....
(Total for Question 7 is 2 marks)



8 Write $x^2 + 3x + 5$ in the form $(x + a)^2 + b$

.....
(Total for Question 8 is 3 marks)

9 Write $x^2 - 5x + 7$ in the form $(x - a)^2 + b$

.....
(Total for Question 9 is 3 marks)

10 Write $x^2 + 9x + 3$ in the form $(x + a)^2 - b$

.....
(Total for Question 10 is 3 marks)

11 Write $x^2 - x - 2.75$ in the form $(x - a)^2 - b$

.....
(Total for Question 11 is 3 marks)



12 Here is an identity

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

Work out the values of p and q .

$p =$

$q =$

(Total for Question 12 is 3 marks)

13 Here is an identity

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

Work out the values of p and q .

$p =$

$q =$

(Total for Question 12 is 3 marks)

