

Essential Skills 2

The questions in this series of worksheets appear frequently.

These are the GIFTS you must take to succeed



Completing the Square (Non Calculator)

Write the following in the form $(x + a)^2 + b$ and state the coordinates of the turning point.

1. $x^2 + 8x - 3$

2. $x^2 - 6x - 1$

3. $x^2 + 12x + 20$

4. $x^2 - 18x$

5. $x^2 - 2x + 7$

6. $x^2 + 10x + 13$

7. $x^2 + 4x - 9$

8. $x^2 - 6x + 6$

9. $x^2 + 14x - 25$

10. $x^2 - 4x + 1$

APPLYING QUESTION

The curve $y = x^2 + 6x - 5$ is shown.

(a) Determine the coordinates of the turning point and the y-intercept

(b) Given that A is $(-8, 11)$ write down the coordinates of B

