

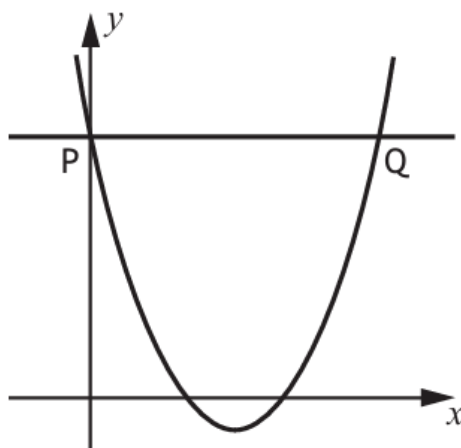
(a) Express $x^2 - 6x + 8$ in the form $(x - a)^2 + b$. 2

(b) Hence, or otherwise, state the coordinates of the turning point of the graph of $y = x^2 - 6x + 8$. 1

The diagram shows the graph of $y = x^2 - 6x + 8$.

A line PQ has been drawn parallel to the x -axis, where:

- P lies on the y -axis
- P and Q lie on the graph of $y = x^2 - 6x + 8$.



(c) Find the coordinates of Q. 2

Answers:

(a) $(x - 3)^2 - 1$

(b) $(3, -1)$

(c) $(6, 8)$