

**10** A curve has gradient function

$$\frac{dy}{dx} = 3x^2 - 12x + c$$

The curve has a turning point at  $(-1, 1)$

**10 (a)** Find the coordinates of the other turning point of the curve.

Fully justify your answer.

**[6 marks]**

**10 (b)** Find the set of values of  $x$  for which  $y$  is increasing.

**[2 marks]**