12 **(a)** Solve the equation $\tan x = 11.43$ for $0° \leqslant x \leqslant 360°$.

$x =$ .... or $x =$ .... [2]

(b) Sketch the curve $y = x^3 - 4x$.
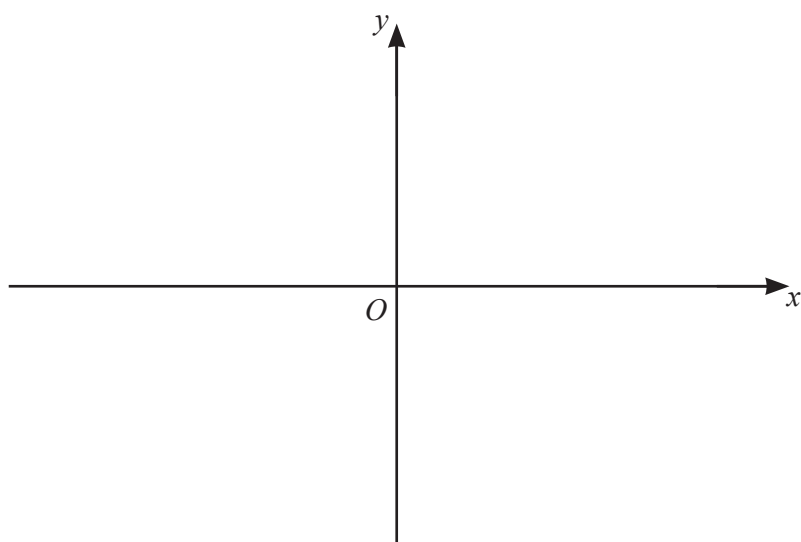
[3]

(c) A curve has equation $y = x^3 + ax + b$.
The stationary points of the curve have coordinates $(2, k)$ and $(-2, 10 - k)$.

Work out the value of a, the value of b and the value of k.

$a =$ .... , $b =$ .... , $k =$ .... [6]