

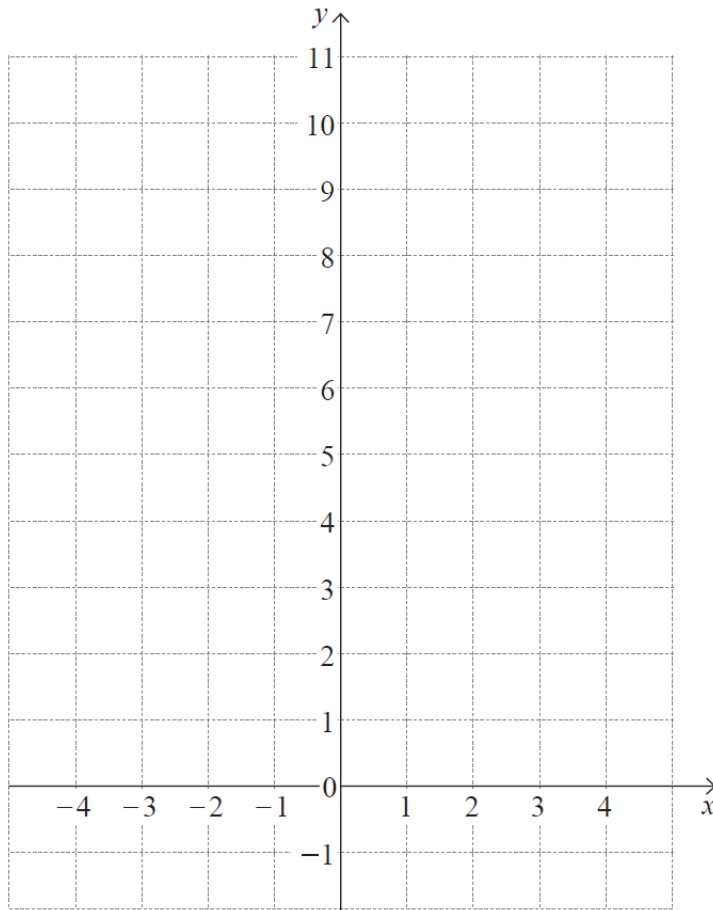
m8 =30 days to go!

6 s is directly proportional to the square of v .

When $v = 20$, $s = 250$

Express s in terms of v .

Answer _____ [3]



(a) Draw the graph of $y = x^2 - 2x + 3$ for $-2 \leq x \leq 4$ on the grid above. [2]

(b) Use your graph to find the gradient of the curve when $x = 2$

Answer _____ [2]

(c) By drawing an appropriate line solve $2x^2 - 4x - 1 = 0$

Answer _____ [2]

(d) What line would you draw on your graph to solve the equation $x^2 + 12x + 4 = 0$?

Answer _____ [2]