



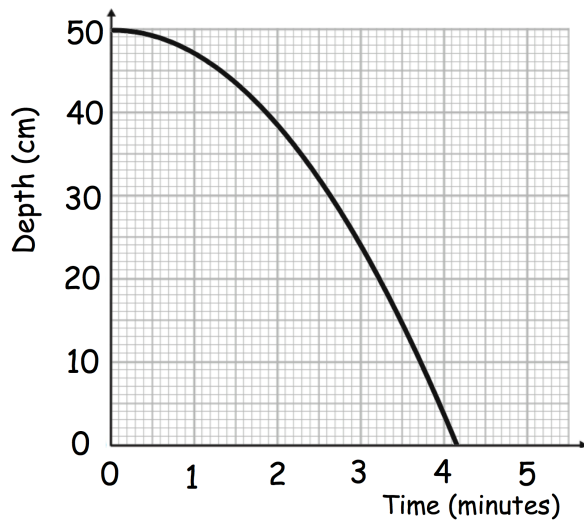
A bag contains 4 red, 5 black and 2 white discs.
A disc is taken, at random, from the bag and not replaced.
A second disc is then taken, at random, from the bag.

Calculate the probability that the discs are different colours.

Expand and simplify

$$(1 - y)(3 - y)(2y + 3)$$

The graph shows the depth of water in a hot tub.



Find the average rate of change in depth from $t = 0$ and $t = 2$

Find the rate of change of depth at $t = 2.5$

Write in the form $a(x + b)^2 + c$

$$3x^2 - 12x + 2$$