

19th November

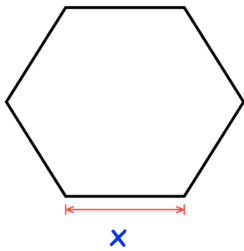


Corbettmaths

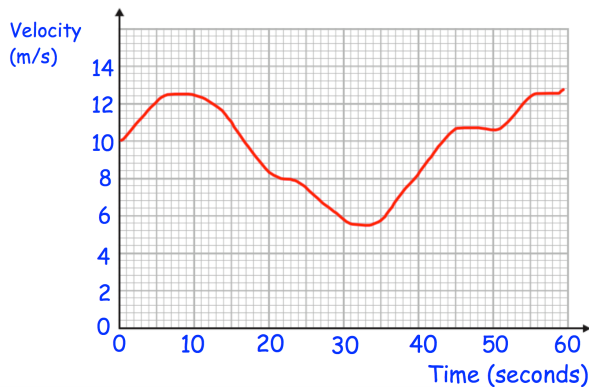
Factorise fully

$$(x + 2)^4 - (x - 3)(x + 2)^2$$

Area = 1m^2



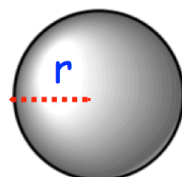
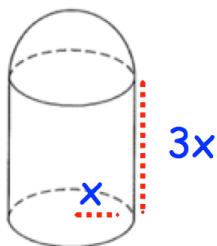
Shown is a regular hexagon.
Find x



Calculate an estimate for the acceleration after 40 seconds

Here is a velocity time graph for the first 60 seconds of a journey.

Calculate an estimate for the total distance travelled in the 60 seconds.



Both shapes have the same volume.
Express r in terms of x .