

5th May

Corbettmaths

Here are the first 5 terms of a quadratic sequence

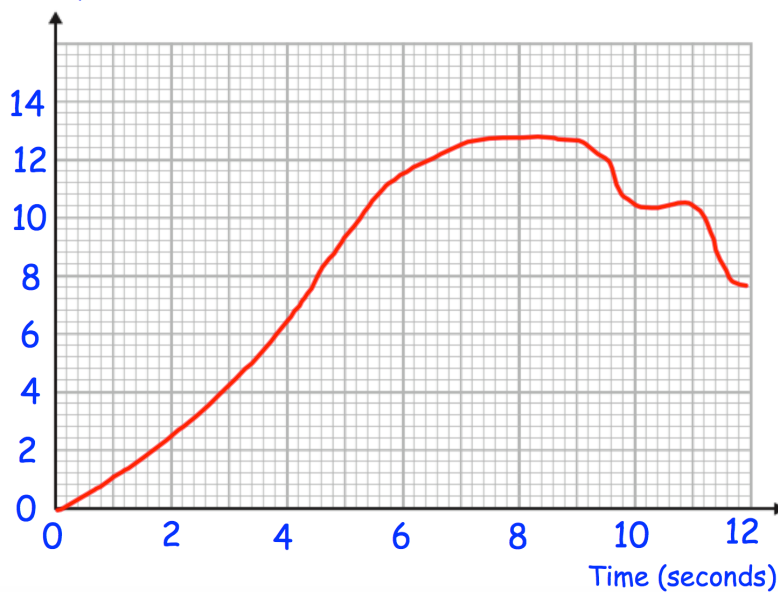
3 9 17 27 39

Find an expression, in terms of n , for the n th term of this quadratic sequence.

Explain why

$$\cos 45 = \frac{\sqrt{2}}{2}$$

Velocity m/s



Here is a velocity/time graph for the first 12 seconds for a particle

Calculate an estimate for the acceleration of the particle at 6 seconds.

Calculate an estimate for the distance travelled by the particle in the first 8 seconds