

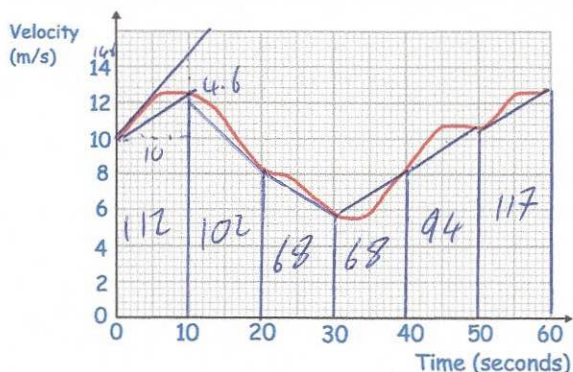
2nd February



Corbettmaths

Rationalise

$$\frac{2}{\sqrt{3}} \times \sqrt{3} = \frac{2\sqrt{3}}{3}$$



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

Calculate an estimate for the acceleration after 5 seconds

$$0.46 \text{ m/s}^2$$

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

6 x trapezium  $\frac{1}{2}(a+b) \times h$

$$112 + 102 + 68 + 68 + 94 + 117 =$$

$$\approx 561 \text{ m}$$

Solve the simultaneous equations

$$y = x + 3$$

$$x^2 + y^2 = 29$$

$$x^2 + (x+3)^2 = 29$$

$$x^2 + x^2 + 6x + 9 = 29$$

$$2x^2 + 6x - 20 = 0$$

$$x^2 + 3x - 10 = 0$$

$$(x+5)(x-2) = 0$$

$$x = -5 \text{ or } x = 2$$

$$y = -2 \text{ or } y = 5$$

A circle, centre (0, 0) has radius 4. Write the equation of the circle.

$$x^2 + y^2 = 4^2 \quad \underline{\underline{=}}$$

$$x^2 + y^2 = 16$$