

26th February



Corbettmaths

Write 0.484848... as a fraction in its simplest form.

$$x = 0.4848\dots$$

$$100x = 48.48\dots$$

$$99x = 48$$

$$x = \frac{48}{99} = \frac{16}{33}$$

Expand and simplify $\sqrt{2}(\sqrt{8} + \sqrt{50})$

$$\sqrt{16} + \sqrt{100}$$

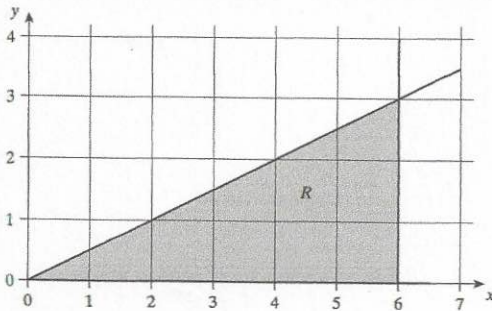
$$4 + 10 = 14$$

Find the gradient of the line with equation $2y - 3x = 10$

$$2y = 3x + 10$$

$$y = \frac{3}{2}x + 5$$

$$\frac{3}{2} \text{ or } 1.5 \text{ or } 1\frac{1}{2}$$

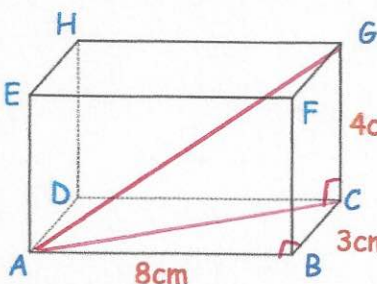


Write down the three inequalities which describe the shaded region

$$x \leq 6$$

$$y \geq 0$$

$$y \leq \frac{1}{2}x$$



$$AC^2 = AB^2 + BC^2$$

$$4\text{cm } AC^2 = 64 + 9$$

$$= 73$$

$$AC = \sqrt{73}$$

AB = 8cm, BC = 3cm and CG = 4cm
Find the length AG

$$AG^2 = AC^2 + CG^2$$

$$AG^2 = (\sqrt{73})^2 + 4^2$$

$$AG^2 = 73 + 16$$

$$= 89$$

$$AG = \sqrt{89}$$

$$= 9.43\text{cm}$$