



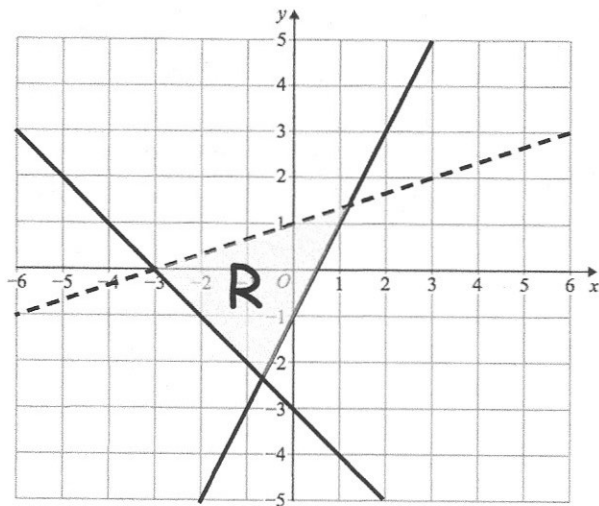
A bicycle wheel has diameter 80cm.
The bicycle travels 50m.

How many complete revolutions does the wheel make?

$$\pi \times 80 = 251.327... \text{ cm}$$

$$5000 \text{ cm} \div 251.3... = 19.89...$$

19 complete revolutions



The diagram shows a region which satisfies 3 inequalities.

Find the inequalities $y \geq -x - 3$

$$y < \frac{1}{3}x + 1$$

$$y \geq 2x - 1$$

Solve $\frac{x+2}{4} + \frac{x}{6} = \frac{11.75}{1}$ $x = 27$

$$\frac{3x+6}{12} + \frac{2x}{12} = \frac{141}{12}$$

$$5x + 6 = 141 \quad 5x = 135$$

A square has side length 6cm 60mm.
measured to the nearest millimetre.

UB 60.5mm

What is the upper bound for its area?

~~60~~ $60.5^2 = 3660.25 \text{ mm}^2$

$$36.6025 \text{ cm}^2$$

a : b is 4:9

c is 20% of a.

$$0.2a = c$$

$$a = 5c$$

Work out b : c

$$a : c = 5 : 1$$

a	b	c
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4	9	
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5		1
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20	45	4
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$$(45 : 4)$$