

4th October



Corbettmaths

Write 1.5238238238... as a simplified fraction.

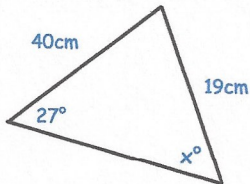
$$x = 1.5238238238\dots$$

$$10x = 15.238238\dots$$

$$10000x = 15238.238238\dots$$

$$9990x = 15223$$

$$\frac{15223}{9990}$$



$$\frac{\sin x}{40} = \frac{\sin 27}{19}$$

$$\sin x = 0.955769\dots$$

$$x = 72.895$$

Find the possible values of x .

$$180 - \cancel{72} 72.895 =$$

$$107.104\dots$$

$$x = 72.895 \text{ or } x = 107.105$$

Express $\sqrt{8} + \sqrt{18}$ in the form $a\sqrt{2}$

$$\sqrt{4} \times \sqrt{2} + \sqrt{9} \times \sqrt{2}$$

$$2\sqrt{2} + 3\sqrt{2}$$

$$5\sqrt{2}$$

Express $x^2 - 8x + 16$ in the form $(x - p)^2 + q$, where p and q are integers

$$(x-4)^2 - 16 + 16$$

$$(x-4)^2$$

State the coordinates of the minimum point of the curve with equation

$$y = x^2 - 8x + 16$$

$$(4, 0)$$