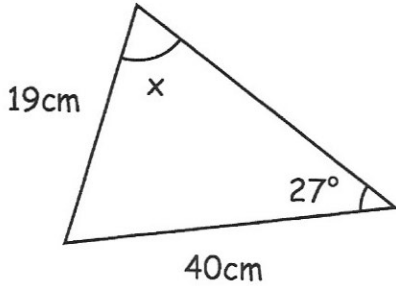




Write 1.5238238238... as a fraction using algebra.

$$\begin{aligned}
 x &= 1.5238238238\dots \\
 10x &= 15.238238\dots \\
 10000x &= 15238.238238\dots \\
 9990x &= 15223
 \end{aligned}$$

$$\begin{array}{r}
 15223 \\
 \hline
 9990
 \end{array}$$

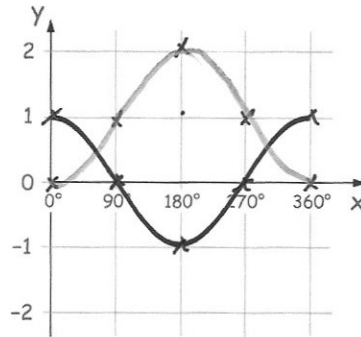


Find the possible values of x.

$$\begin{aligned}
 \frac{\sin x}{40} &= \frac{\sin 27}{19} & \sin x &= 0.955769\dots \\
 & & x &= 72.895 \\
 & & & 180 - 72.895 \\
 & & & = 107.104\dots \\
 x &= 72.9^\circ \text{ or } 107.1^\circ
 \end{aligned}$$

Shown is the graph of $y = \cos x$

Draw $y = 1 - \cos x$



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

$$\begin{aligned}
 (x - 4)^2 - 16 + 16 \\
 (x - 4)^2
 \end{aligned}$$

State the coordinates of the minimum point of the curve with equation $y = x^2 - 8x + 16$

$$(4, 0)$$