

18th June



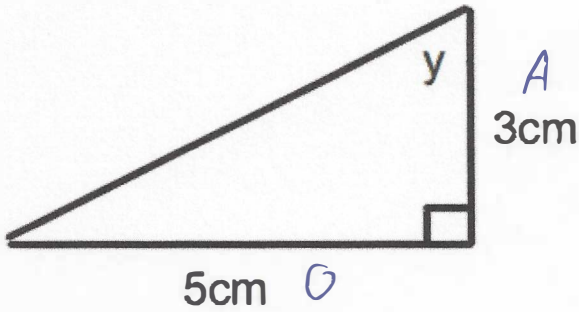
Corbettmaths

A water tank is two-thirds full. A quarter of a full tank is poured out. What fraction of a tank is left?

$$\frac{2}{3} - \frac{1}{4}$$

$$\frac{8}{12} - \frac{3}{12}$$

$$\frac{5}{12}$$



Calculate angle y

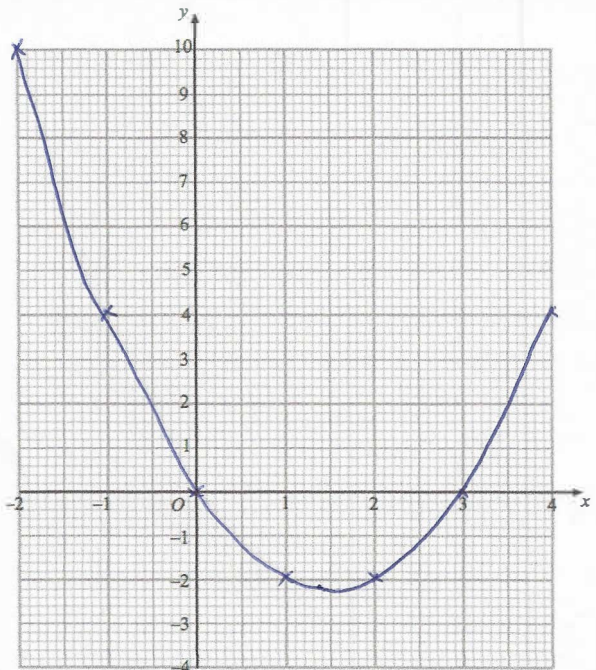
$$\tan y = \frac{5}{3}$$

$$y = \tan^{-1}\left(\frac{5}{3}\right)$$

$$= 59.04^\circ$$

Complete the table of values for $y = x^2 - 3x$

x	-2	-1	0	1	2	3	4
y	10	4	0	-2	-2	0	4



On the grid, draw the graph of $y = x^2 - 3x$ for the values of x from -2 to 4.

Solve these simultaneous equations

$$\begin{array}{r} 4x + 9y = 10 \\ 2x + 3y = 2 \end{array} \quad \begin{array}{r} 4x + 9y = 10 \\ 6x + 9y = 6 \\ \hline -2x = 4 \\ x = -2 \end{array}$$

$$\begin{array}{r} -4 + 3y = 2 \\ 3y = 6 \\ y = 2 \end{array}$$

check

$$-8 + 18 = 10 \checkmark$$

$$x = -2, y = 2$$