

M8 = 10 days to go!

11 Evaluate each of the following.

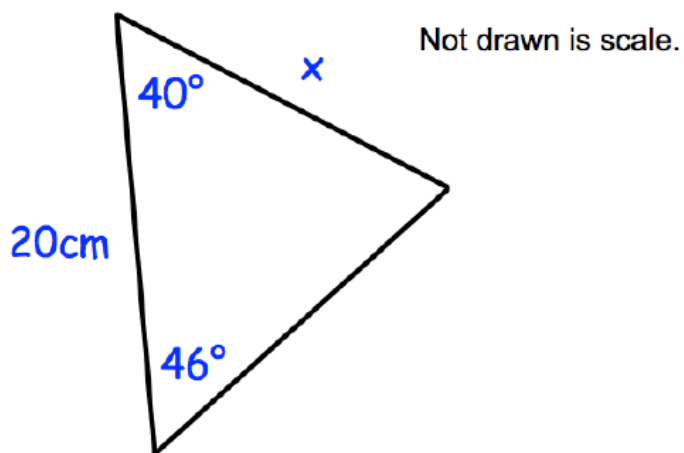
(a) $8^{\frac{2}{3}}$

Answer _____ [1]

(b) $9^{0.5} + 27^{\frac{1}{3}} \div 36^{-0.5}$

Answer _____ [3]

6.

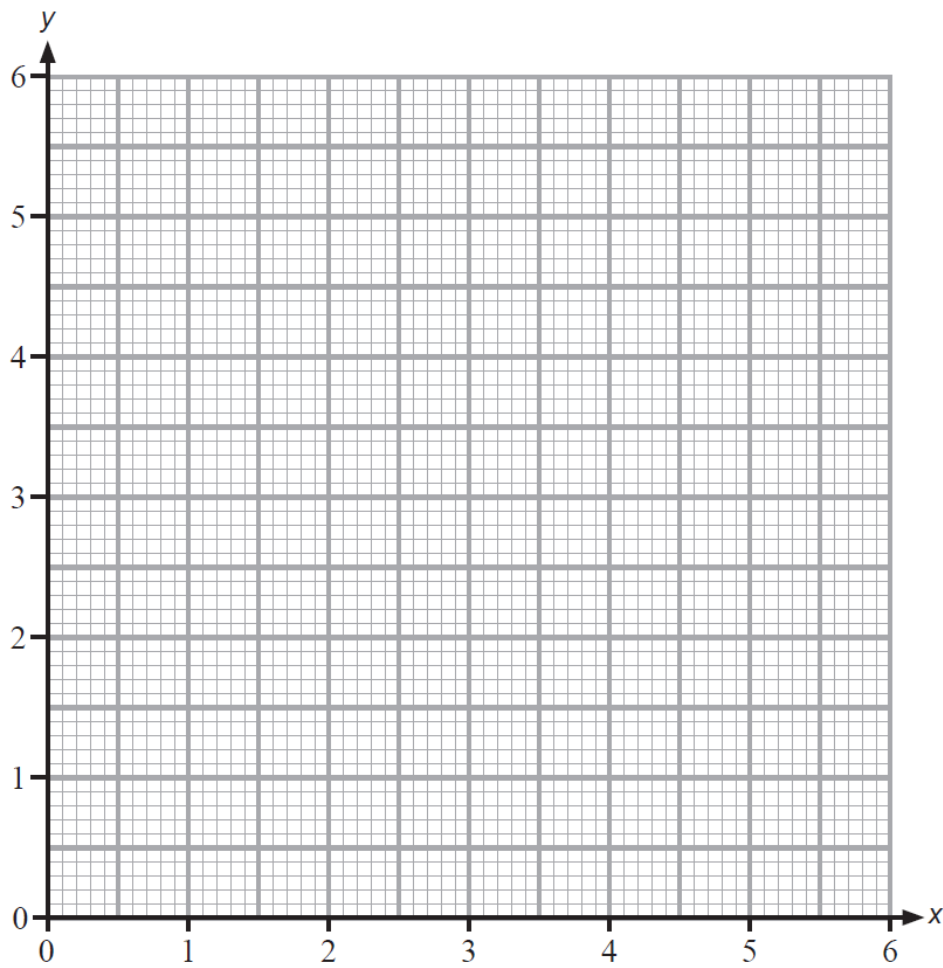


Find the size of x.

.....cm
(3)

- 8 (a) On the grid below, show by shading **and the letter R**, the region represented by the inequalities.

$$\begin{aligned}x + y &\leq 6 \\x &\geq 2 \\2y &\geq x\end{aligned}$$



[3]

- (b) Find the maximum value of $2x + 3y$ in the region R, where x and y are integers.

Answer _____ [2]