

18 $a:b = 5:8$ and $b:c = 6:25$

Find, in its simplest form, $a:b:c$

$$a:b:c = \dots\dots\dots$$

(Total for Question 18 is 3 marks)

19

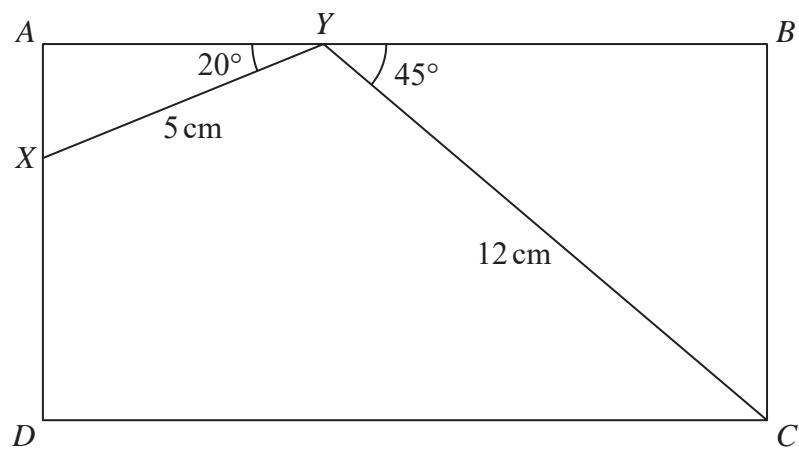


Diagram NOT
accurately drawn

$ABCD$ is a rectangle.

X is the point on AD and Y is the point on AB such that $XY = 5$ cm, $YC = 12$ cm, $\angle BYC = 45^\circ$ and $\angle AYX = 20^\circ$

Find the length, in cm to 3 significant figures, of

(a) BC ,

$$BC = \dots\dots\dots \text{cm} \quad (2)$$

(b) AB .

$$AB = \dots\dots\dots \text{cm} \quad (2)$$

(Total for Question 19 is 4 marks)

