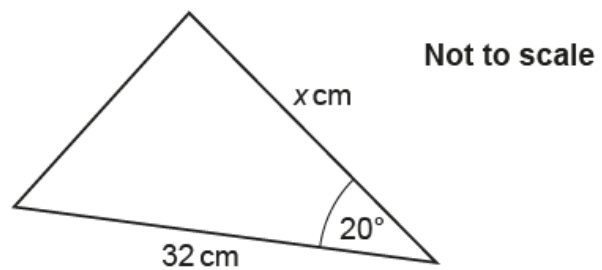
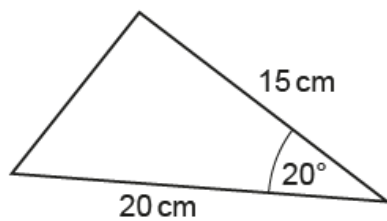


Congruence and similarities – 2021/20 GCSE Mathematics Foundation**1. Nov/2021/Paper_J560/01/No.17**

These two triangles are mathematically similar.

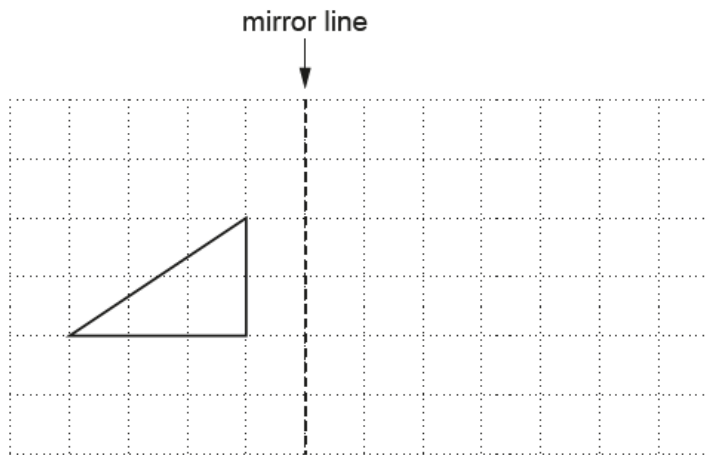


Work out the value of x .

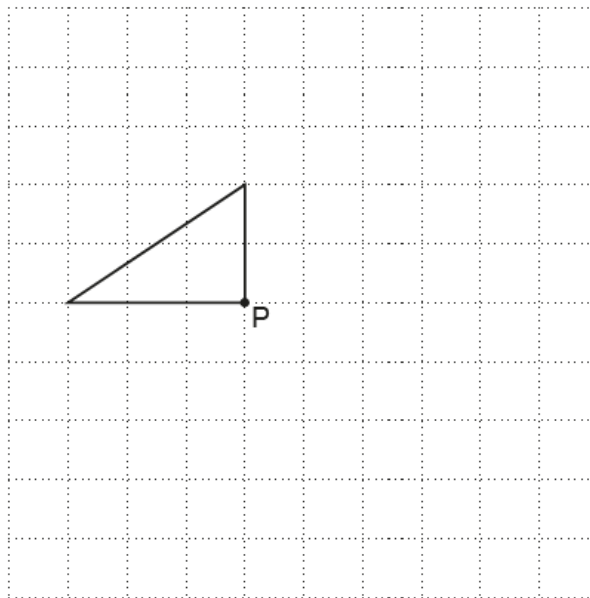
$x = \dots\dots\dots$ [2]

2. Nov/2020/Paper_J560/01/No.2

(a) Reflect the triangle in the mirror line.



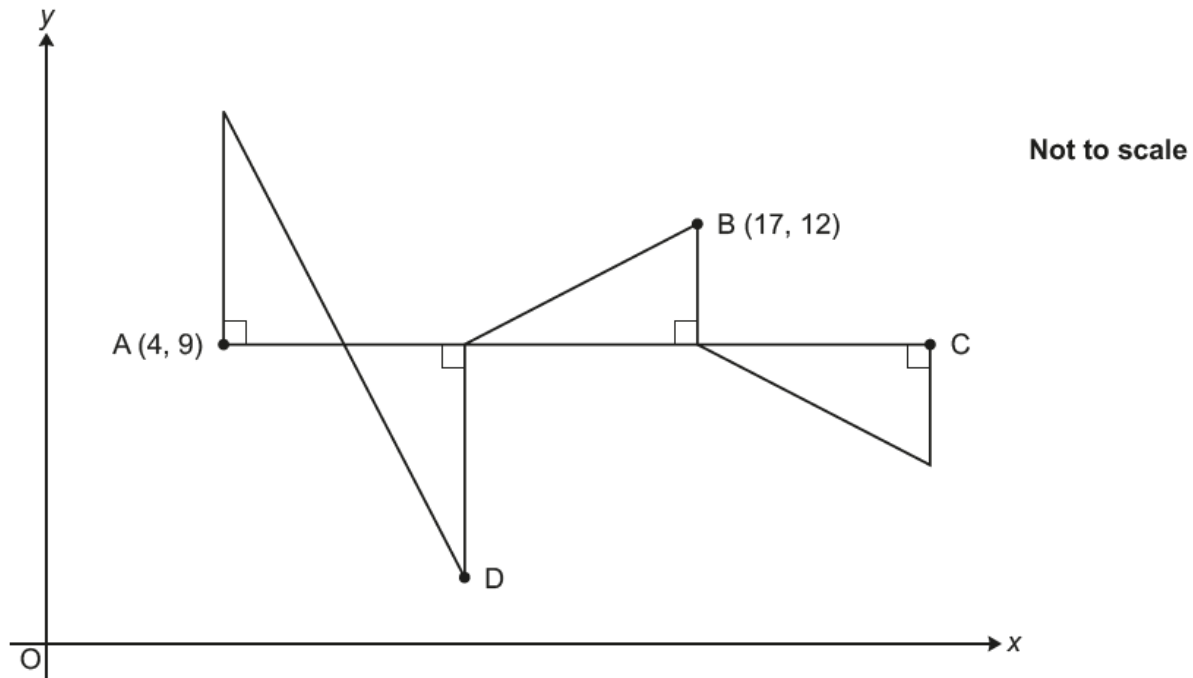
[2]

(b) Rotate the triangle 90° clockwise about the point P.

[2]

3. Nov/2020/Paper_J560/02/No.20

A pattern is made from four congruent right-angled triangles.



The line AC is parallel to the x -axis.

The point A has coordinates (4, 9) and the point B has coordinates (17, 12).

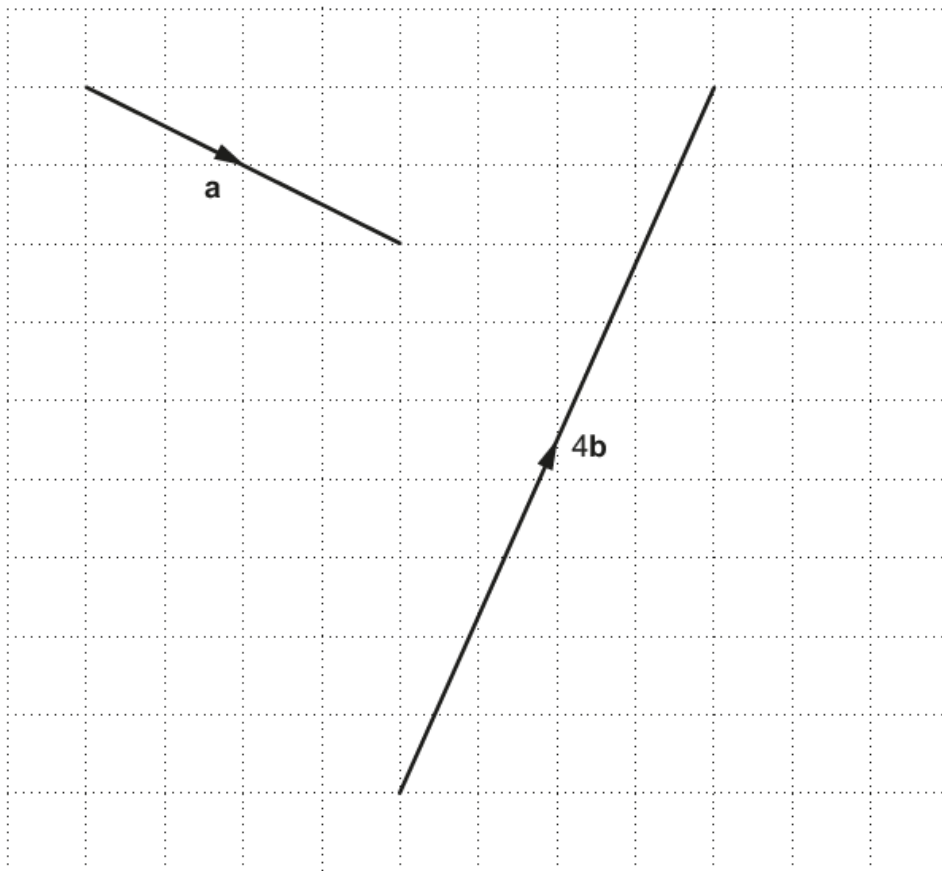
Work out the coordinates of point C and point D.

C (..... ,)

D (..... ,) [5]

4. Nov/2020/Paper_J560/03/No.21

Vectors **a** and **4b** are drawn on the grid.



(a) Write vector **a** as a column vector.

(a) $\begin{pmatrix} \\ \end{pmatrix}$ [2]

(b) Find vector **b** as a column vector.

(b) $\begin{pmatrix} \\ \end{pmatrix}$ [2]