

M7 = 15 days to go!

14 Joe was changing the subject of the formula

$$A = \frac{3b}{\sqrt{c}} \quad \text{to } c$$

Joe has written $A = \frac{3b}{\sqrt{c}}$

Line 1 $A^2 = \frac{3b^2}{c}$

Line 2 $A^2c = 3b^2$

Line 3 $c = \frac{3b^2}{A^2}$

(a) Identify the line where Joe made a mistake.

Answer Line _____ [1]

(b) Write down the correct answer:

Answer $c =$ _____ [1]

Evaluate

$$4^{-2}$$

.....
(1)

12

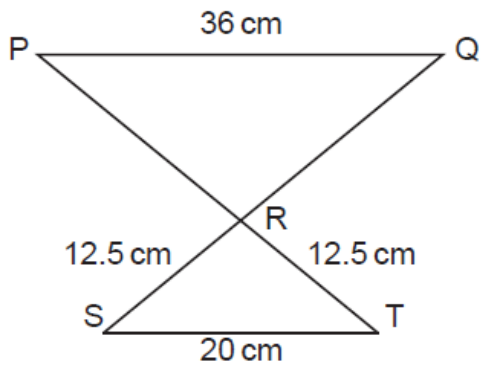
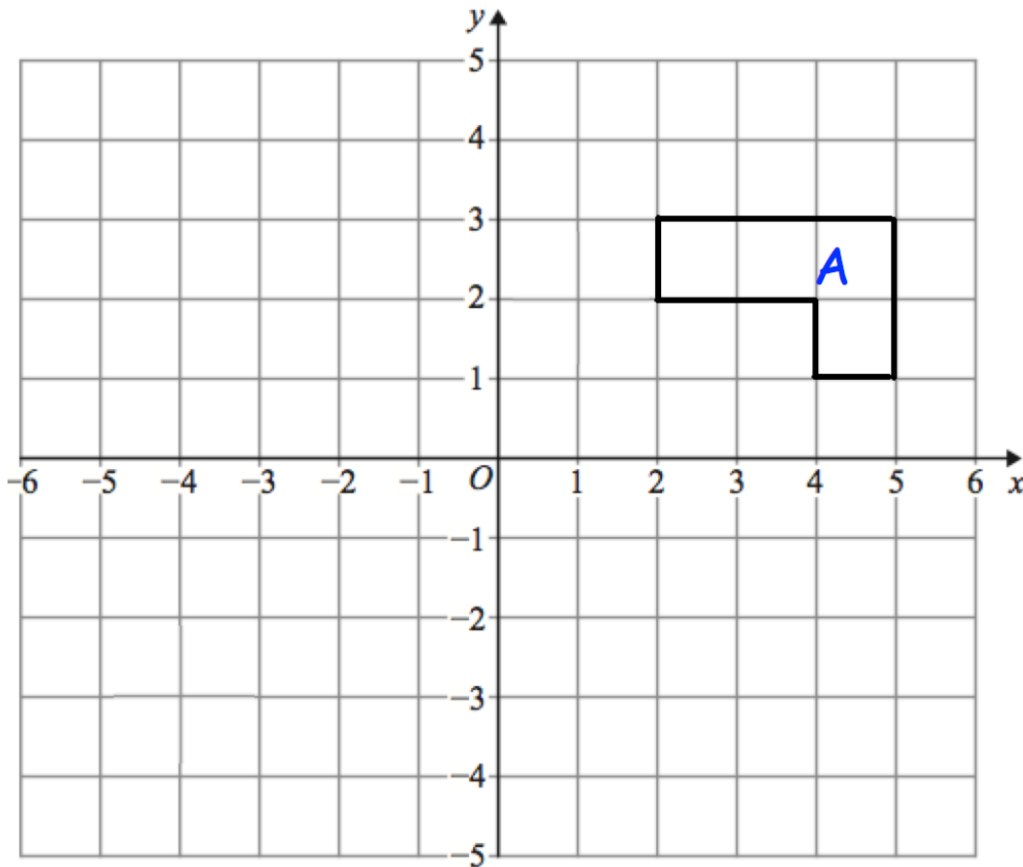


Diagram not drawn accurately

PQR and STR are similar triangles.

(a) Calculate the length of QR.

Answer _____ cm [2]



Rotate shape A 90° anti-clockwise about centre (5, -1)

(3)