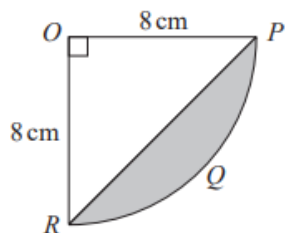


Edexcel GCSE Mathematics Calculator 2021 Higher Paper 3 Revision Worksheet

Question 7

The diagram shows a sector OPQR of a circle, centre O and radius 8 cm.



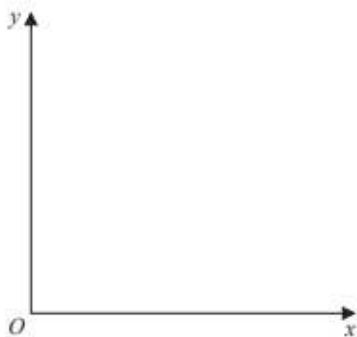
Work out the area of the shaded segment PQR. Give your answer correct to 3 significant figures.

..... cm^2

Question 8

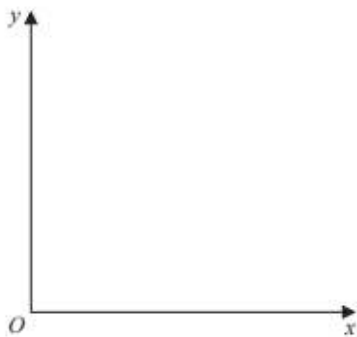
a) Using the axes below, sketch a graph to represent the statement

y is directly proportional to x



b) Using the axes below, sketch a graph to represent the statement

y is inversely proportional to x



Question 9

On Monday, 12 people took 5 hours to clean a number of cars. On Tuesday, 15 people cleaned the same number of cars. Assuming that all the people worked at the same rate,

(a) work out how many hours the 15 people took to clean the cars.

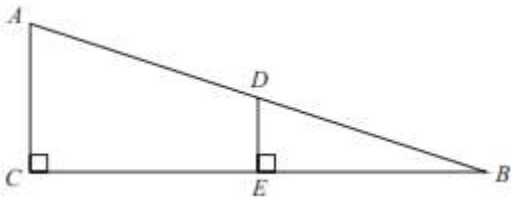
..... hours

(b) The assumption is wrong. How might this affect the time taken for the 15 people to clean the cars?

.....

Question 10

The diagram shows two right-angled triangles ACB and DEB.



AD = 9 cm

DE = 2 cm

DB = 6 cm

Calculate the length of CB. Give your answer correct to 2 decimal places.

..... cm

Question 11

Freya writes down the value of x , correct to 1 decimal place. She writes $x = 6.4$

Complete the error interval for x .

..... $\leq x <$

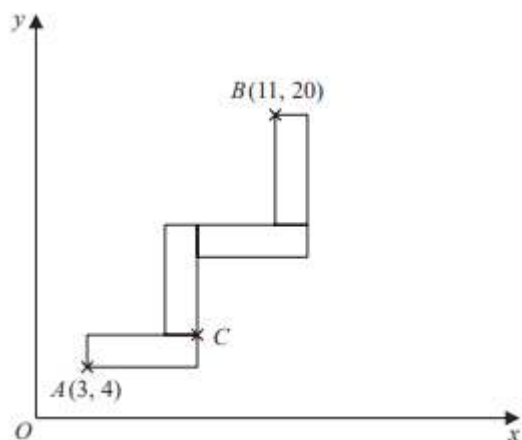
Question 12

$$(ax^n) \times \frac{1}{3} = 7x^3$$

Work out the value of a and the value of n . $a = \dots\dots\dots$ $n = \dots\dots\dots$

Question 13

A pattern is made from four identical rectangles. The sides of the rectangles are parallel to the axes.



Point A has coordinates (3, 4)

Point B has coordinates (11, 20)

Point C is marked on the diagram.

Work out the coordinates of C.

You must show all your working.

(..... ,)
