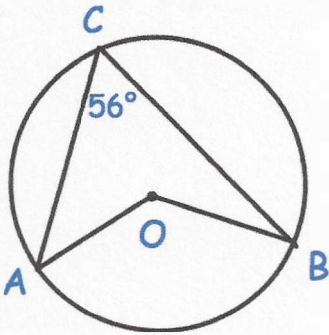


17th December



Corbettmaths



O is the centre of the circle.

Find the size of angle AOB.

112°

Factorise

$5y^2 + 12y - 9$

$(5y - 3)(y + 3)$

Find the coordinates of the point where the linear graphs $y = 4x + 1$ and $y = 6 - 3x$ intersect.

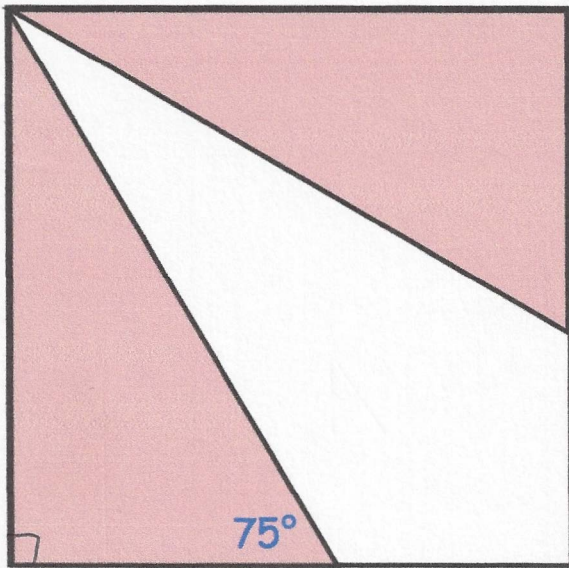
$4x + 1 = 6 - 3x$

$7x = 5$

$x = \frac{5}{7}$

$y = 2717$

$(517, 2717)$



The diagram shows a square.

Calculate the area of the white region.

$T^{\circ}A$

$0 = \tan(75) \times 5$
 $= 18.66 \text{ cm}$

Square: 18.66×18.66
 $= 348.2050808 \text{ cm}^2$

Triangle: $\frac{1}{2} \times 5 \times 18.66 = 46.65$

$348.208 - (2 \times 46.65)$

254.9 cm^2