Calculate the exact trigonometric values

Cos (0)	
Cos (30)	
Cos (45)	
Cos (60)	
Cos (90)	

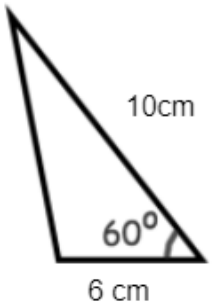
Write $0.\dot{3}5\dot{2}$ as a fraction in its simplest form.

Find the interior and exterior angle of a regular decagon.

Interior ……

Exterior ……

Work out the area of this triangle



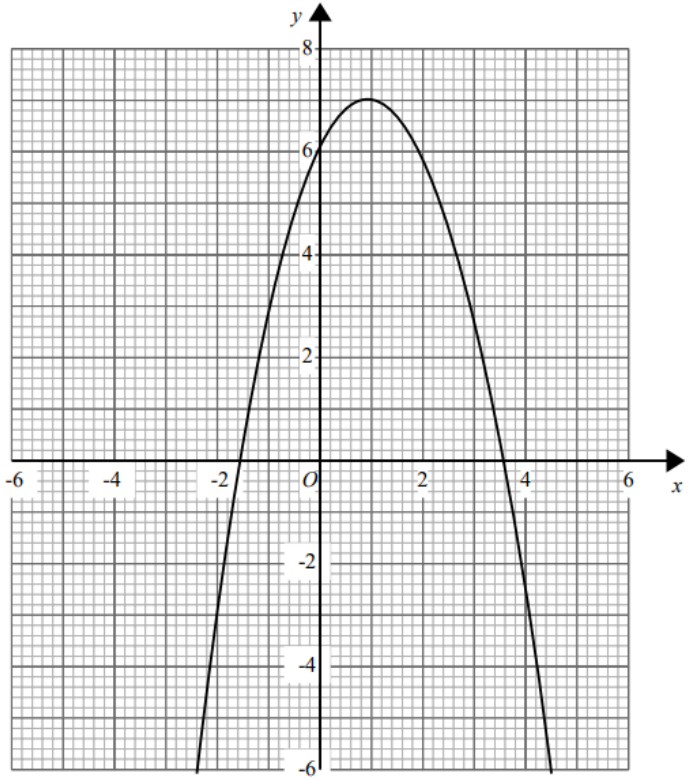
…… cm^2

Simplify $\dfrac{3\sqrt{6}}{\sqrt{6}-3}$

Liquid A has a density of 5 g/cm^3
Liquid B has a density of 20g/cm^3
200ml of liquid A is mixed with 100ml of liquid B to make liquid C.
Work out the density of liquid C

	Density	Mass	Volume
Liquid A			
Liquid B			
Liquid C			

Here is the graph of $y = 2x + 6 – x^2$



Write down the turning point of the graph $y = 2x + 6 – x^2$

(……. , ……..)

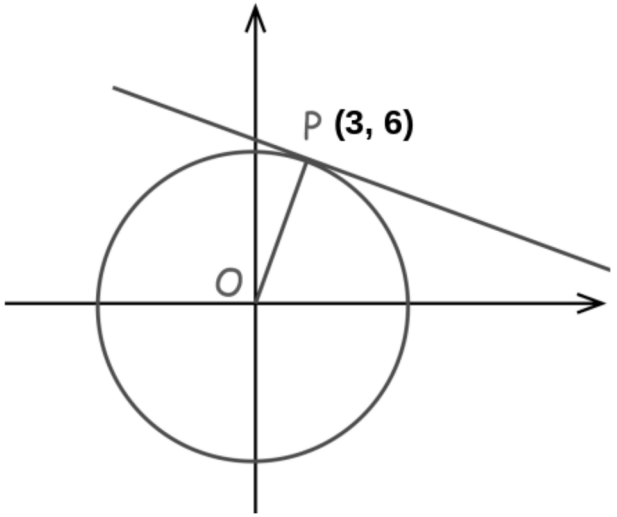
Use the graph to find the roots of the equation $2x + 6 – x^2 = 0$

……..

Use the graph to find the roots of the equation $2x + 6 – x^2 = 3$

……..

The diagram shows the circle $x^2 + y^2 = 45$ with a tangent at the point (3, 6)



Find the gradient of the line OP

……

Find the gradient of the tangent

……

Find the equation of the tangent

……