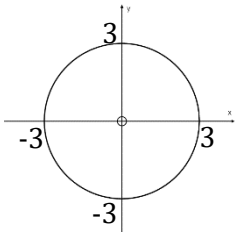
a)
The diagram shows a circle, centre the origin.

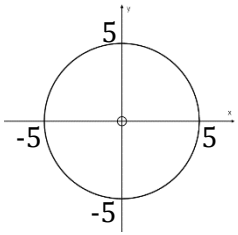
Write down the equation of the circle.



What is the general form for the equation of a circle?	$x^2 + y^2 = r^2$
Do we know a point that the circle passes through?	(0, 3)
Can we find the square of the radius?	$0^2 + 3^2 = 0 + 9 = 9$
What is the equation of the circle?	$x^2 + y^2 = 9$

b)
The diagram shows a circle, centre the origin.

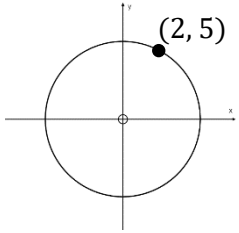
Write down the equation of the circle.



What is the general form for the equation of a circle?	$x^2 + y^2 = r^2$
Do we know a point that the circle passes through?	(5, 0)
Can we find the square of the radius?	$5^2 + 0^2 = 25 + 0 = 25$
What is the equation of the circle?	

c)
The diagram shows a circle, centre the origin.

Write down the equation of the circle.



What is the general form for the equation of a circle?	$x^2 + y^2 = r^2$
Do we know a point that the circle passes through?	(2, 5)
Can we find the square of the radius?	
What is the equation of the circle?	

d)
The diagram shows a circle, centre the origin.

Write down the equation of the circle.