



Name: \_\_\_\_\_



Find the equation of a circle with centre (0,0) and...

a) Radius = 4

$$x^2 + y^2 = 16$$

b) Radius = 2

$$x^2 + y^2 = 4$$

c) Radius = 7

$$x^2 + y^2 = 49$$

d) Radius = 9

$$x^2 + y^2 = 81$$

e) Diameter = 20

$$x^2 + y^2 = 100$$

f) Diameter = 16

$$x^2 + y^2 = 64$$

g) Radius =  $\sqrt{7}$ 

$$x^2 + y^2 = 7$$

h) Radius =  $\sqrt{5}$ 

$$x^2 + y^2 = 5$$

i) Radius =  $2\sqrt{3}$ 

$$x^2 + y^2 = 12$$

j) Radius =  $8\sqrt{5}$ 

$$x^2 + y^2 = 320$$

Find the radius of the circle with equation...

Leave your answer in the simplest exact form

k)  $x^2 + y^2 = 36$ 

6

o)  $x^2 + y^2 = 8$  $2\sqrt{2}$ l)  $x^2 + y^2 = 121$ 

11

p)  $x^2 + y^2 = 24$  $2\sqrt{6}$ m)  $x^2 + y^2 = 49$ 

7

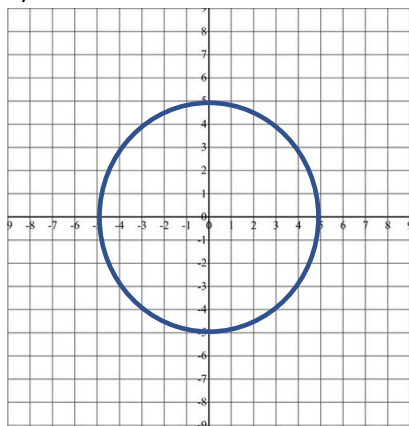
q)  $x^2 + y^2 = 40$  $2\sqrt{10}$ n)  $x^2 + y^2 = 225$ 

15

r)  $x^2 + y^2 = 72$  $6\sqrt{2}$ 

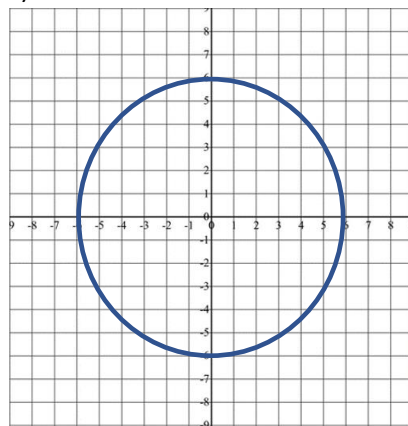
Find the equation of the circles shown in the diagrams below...

s)



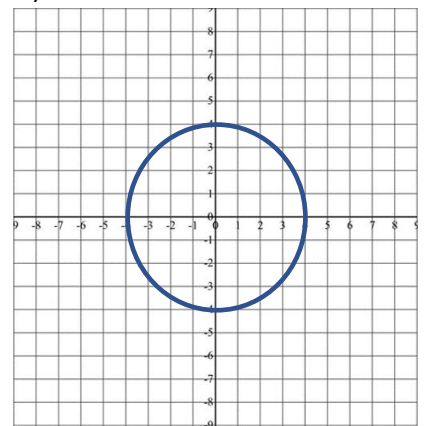
$$x^2 + y^2 = 25$$

t)



$$x^2 + y^2 = 36$$

u)



$$x^2 + y^2 = 16$$

Exam question:

Write the equation of a circle with centre (0,0) which has a radius of 7cm

$$x^2 + y^2 = 49$$

