

### ACTION

### RESPONSE

Write the equations of the circle with centre at the origin when the radius is:

1) 5

2) 11

3) 2.5

For each circle, write the centre and the radius:

4)  $x^2 + y^2 = 1$

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

6)  $x^2 + y^2 = 60$

#### Fluency



#### Reasoning



Each of these points lie on a different circle with centre (0,0).

Find the equation of each circle.

(a) (1,6)

(b) (4,4)

(c) (12,23)

(d) (-3,7)

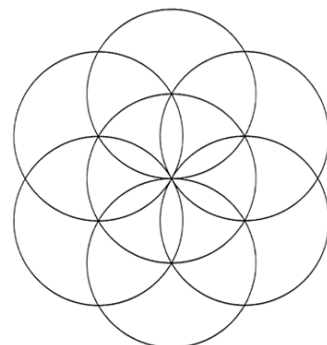
#### Problem Solving



The tangent to a circle with centre (0,0)

passes through the points (11,2) and (-1,8).

Find the equation of the circle.



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