

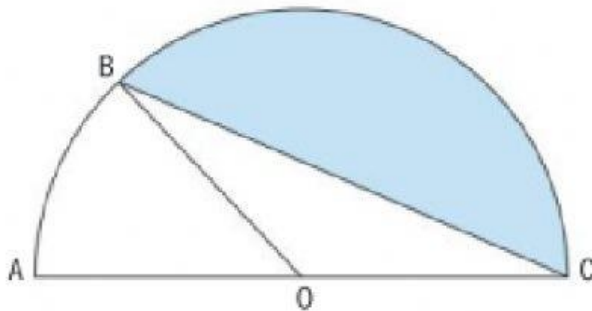
POST TEST **GEOMETRY OF CIRCLE AND ITS EQUATION**

NAME

DATE

CLASS

1. The following diagram shows a semicircle, center O. AO = 15 cm and arc AB = 10 cm.



The area of the shaded region equals

cm².

2. Write the equation of circle which center is (6, -2) and radius is 6 cm .

Equation :

$$(x \quad \square \quad \square) \quad \square + (y \quad \square \quad \square) \quad \square = \square$$

To put in simply, we write

$$x^2 + y^2 \quad \square \quad \square \quad x \quad \square \quad \square \quad y \quad \square \quad \square = 0$$

3. The point (3,2) is on a circle with center (2,4)

Equation :

$$(x \quad \square \quad \square) \quad \square + (y \quad \square \quad \square) \quad \square = \square$$

4. The diameter of a circle has endpoint (3,2) and (3,3). Then

Equation :

$$(x \boxed{} \boxed{})^{\boxed{}} + (y \boxed{} \boxed{})^{\boxed{}} = \boxed{}$$

5. The equation of a circle is represented by $x^2 + y^2 - 4x + 6y - 12 = 0$

Its radius

Its center:

Abscissa

Ordinate