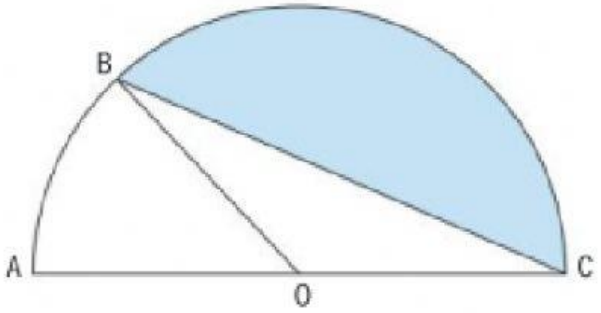
POST TEST
GEOMETRY OF CIRCLE AND ITS EQUATION

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 _____ cm^2.

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

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

To put in simply, we write

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

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

Equation :

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

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

Equation :

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

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

Its radius ☐

Its center: Abscissa ☐ Ordinate ☐

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