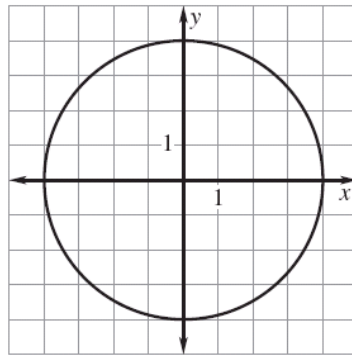


Warm-up: SAT Workbook: 10.3: 1, 3, 4

1. **Multiple Choice** Which equation is graphed?



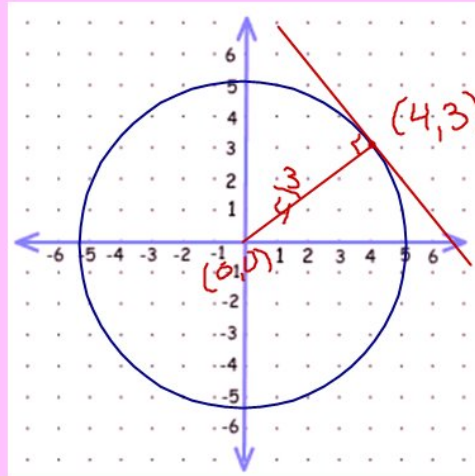
- (A) $x^2 - y^2 = 16$ (B) $x^2 + y^2 = 16$
 (C) $x^2 + y^2 = 4$ (D) $x^2 - y^2 = 4$
 (E) $2x^2 + 2y^2 = 8$

3. **Multiple Choice** Which is the standard form of the equation where the point $(3, -6)$ is on a circle whose center is the origin?

- (A) $x^2 + y^2 = 45$ (B) $x^2 + y^2 = 3$
 (C) $3x^2 + 3y^2 = 120$ (D) $x^2 - y^2 = 6$
 (E) $2x^2 - 2y^2 = 90$

4. **Multiple Choice** What is the equation of the line that is tangent to the circle $x^2 + y^2 = 25$ at the point $(4, 3)$?

- (A) $y = \frac{4}{3}x + \frac{25}{3}$ (B) $y = \frac{4}{3}x$
 (C) $y = -\frac{3}{4}x + 6$ (D) $y = -\frac{4}{3}x - \frac{25}{3}$
 (E) $y = -\frac{4}{3}x + \frac{25}{3}$



Homework: Quiz 1 pg 607: 1-23 odd
 Quiz 3 pg 638: 1,3,6,7

$$6. -3x^2 - 3y^2 + 6x + 4y + 1 = 0$$

$$-3x^2 + 6x \quad -3y^2 + 4y \quad = -1$$

$$x^2 - 2x + 1 \quad + y^2 - \frac{4}{3}y + \frac{4}{9} \quad = \frac{1}{3} + 1 + \frac{4}{9}$$

$$(x-1)^2 \quad + \left(\quad \right)^2 \quad = \frac{16}{9}$$

$$\frac{1}{2} \left(\frac{-4}{3} \right)$$

$$\left(\frac{-2}{3} \right)^2$$

