

Ticket out the door

Date _____ Period _____

Use the information provided to write the standard form equation of each circle. Graph each circle.

- 1) Center: $(1, 3)$
Radius: 4

2) $x^2 + y^2 - 8x - 16y + 71 = 0$

Write the slope-intercept form of the equation of the line described.

- 3) through: $(3, -4)$, parallel to $3y = -5x - 1$

- 4) through: $(3, 5)$, perp. to $y = -4x - 3$

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1) Center: $(1, 3)$

Radius: 4

$$(x - 1)^2 + (y - 3)^2 = 16$$

2) $x^2 + y^2 - 8x - 16y + 71 = 0$

$$(x - 4)^2 + (y - 8)^2 = 9$$

Write the slope-intercept form of the equation of the line described.

3) through: $(3, -4)$, parallel to $3y = -5x - 1$ $y = -\frac{5}{3}x - \frac{1}{3}$

4) through: $(3, 5)$, perp. to $y = -4x - 3$ $y = \frac{1}{4}x + \frac{17}{4}$