

6.10 Writing Equations of Circles HW

Directions: Write the equation of the circle in STANDARD form.

1) $x^2 + 2x + y^2 - 10y + 10 = 0$

2) $x^2 + y^2 - 4x + 6y + 9 = 0$

3) $x^2 + y^2 - 10x - 12y + 40 = 0$

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

5) $7x^2 + 7y^2 - 28y + 14 = 0$

6) $3x^2 + 3y^2 + 18x + 6y = 0$

Directions: Write the equation of the circle in GENERAL form.

7) $(x - 2)^2 + (y + 6)^2 = 25$

8) $(x + 5)^2 + y^2 = 27$

Directions: Write the equation of the circle in both forms.

9) Center: $(2, -3)$ & Radius: 7

10) Center: $(-13, -16)$ & Point on the Circle: $(-10, -16)$

* 11) Ends of the diameter are $(18, -13)$ and $(4, -3)$

12) Center $(0, 13)$ & Area of 25π

