

Changing Forms Eq of Circles

Date _____ Period _____

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

1) $x^2 + y^2 - 26x + 14y + 214 = 0$

2) $x^2 + y^2 - 14x + 20y + 133 = 0$

3) $x^2 + y^2 - 4x - 30y + 213 = 0$

4) $x^2 + y^2 + 2x - 14y - 84 = 0$

5) $x^2 + y^2 + 20x - 22y + 212 = 0$

6) $x^2 + y^2 + 28x - 2y + 196 = 0$

$$7) x^2 + y^2 - 14x + 8y - 33 = 0$$

$$8) x^2 + y^2 + 22x - 28y + 308 = 0$$

Use the information provided to write the general conic form equation of each circle.

$$9) (x + 2)^2 + (y - 8)^2 = 1$$

$$10) (x - 10)^2 + (y - 8)^2 = 64$$

$$11) (x + 6)^2 + (y + 3)^2 = 16$$

$$12) (x - 7)^2 + (y - 4)^2 = 31$$

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

1) $x^2 + y^2 - 26x + 14y + 214 = 0$

$$(x - 13)^2 + (y + 7)^2 = 4$$

2) $x^2 + y^2 - 14x + 20y + 133 = 0$

$$(x - 7)^2 + (y + 10)^2 = 16$$

3) $x^2 + y^2 - 4x - 30y + 213 = 0$

$$(x - 2)^2 + (y - 15)^2 = 16$$

4) $x^2 + y^2 + 2x - 14y - 84 = 0$

$$(x + 1)^2 + (y - 7)^2 = 134$$

5) $x^2 + y^2 + 20x - 22y + 212 = 0$

$$(x + 10)^2 + (y - 11)^2 = 9$$

6) $x^2 + y^2 + 28x - 2y + 196 = 0$

$$(x + 14)^2 + (y - 1)^2 = 1$$

$$7) x^2 + y^2 - 14x + 8y - 33 = 0$$

$$(x - 7)^2 + (y + 4)^2 = 98$$

$$8) x^2 + y^2 + 22x - 28y + 308 = 0$$

$$(x + 11)^2 + (y - 14)^2 = 9$$

Use the information provided to write the general conic form equation of each circle.

$$9) (x + 2)^2 + (y - 8)^2 = 1$$

$$x^2 + y^2 + 4x - 16y + 67 = 0$$

$$10) (x - 10)^2 + (y - 8)^2 = 64$$

$$x^2 + y^2 - 20x - 16y + 100 = 0$$

$$11) (x + 6)^2 + (y + 3)^2 = 16$$

$$x^2 + y^2 + 12x + 6y + 29 = 0$$

$$12) (x - 7)^2 + (y - 4)^2 = 31$$

$$x^2 + y^2 - 14x - 8y + 34 = 0$$