Geometry

Name_____

7.3 Practice

Date_____

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

1) $(x - 7)^2 + (y - 16)^2 = 1$

2) $(x - 5)^2 + (y + 6)^2 = 81$

3) $(x - 2)^2 + (y - 14)^2 = 16$

4) $(x + 6)^2 + (y - 4)^2 = 64$

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

5) $x^2 + y^2 + 14x + 18y + 81 = 0$

6) $x^2 + y^2 - 14x + 16y + 109 = 0$

7) $x^2 + y^2 + 6x - 26y + 169 = 0$

8) $x^2 + y^2 + 8x + 8y - 17 = 0$

9) $x^2 + y^2 + 4x + 8y - 5 = 0$

10) $x^2 + y^2 + 14x + 20y + 113 = 0$

Answers to 7.3 Practice

1) $x^2 + y^2 - 14x - 32y + 304 = 0$

2) $x^2 + y^2 - 10x + 12y - 20 = 0$

3) $x^2 + y^2 - 4x - 28y + 184 = 0$

4) $x^2 + y^2 + 12x - 8y - 12 = 0$

5) $(x + 7)^2 + (y + 9)^2 = 49$

6) $(x - 7)^2 + (y + 8)^2 = 4$

7) $(x + 3)^2 + (y - 13)^2 = 9$

8) $(x + 4)^2 + (y + 4)^2 = 49$

9) $(x + 2)^2 + (y + 4)^2 = 25$

10) $(x + 7)^2 + (y + 10)^2 = 36$