

Name: _____

Date _____

Topic : Write the standard equation, the center, and the radius for each circle
- Worksheet 1

Write the equation of the circle in standard form and find the center and the radius.

1. $x^2 + y^2 + 6x - 4y + 23 = 35$

2. $x^2 + y^2 + 8x + 15 = 3$

3. $x^2 + y^2 + 4x + 4 = 9/16$

4. $x^2 + y^2 - 6x - 4y + 15 = 27$

5. $x^2 + y^2 - 2x - 4y + 7 = 4$

6. $x^2 + y^2 + 4x + 2y + 5 = 64$

7. $x^2 + y^2 + 2x + 4y + 5 = 25$

8. $x^2 + y^2 + 6x + 4y + 13 = 16$

9. $x^2 + y^2 - 12x - 6y + 45 = 64$

10. $x^2 + y^2 + 4x - 8y + 20 = 16/25$



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- Worksheet 2

Write the equation of the circle in standard form and find the center and the radius.

1. $x^2 + y^2 + 8x - 4y + 20 = 36$

2. $x^2 + y^2 + 6x + 9 = 4$

3. $x^2 + y^2 + 2x + 1 = 4/9$

4. $x^2 + y^2 - 4x - 8y + 20 = 16$

5. $x^2 + y^2 - 6x - 8y + 25 = 49$

6. $x^2 + y^2 + 6x + 4y + 13 = 25$

7. $x^2 + y^2 + 4x + 2y + 5 = 16$

8. $x^2 + y^2 + 2x + 6y + 10 = 64$

9. $x^2 + y^2 - 10x - 8y + 41 = 49$

10. $x^2 + y^2 + 8x - 12y + 52 = 25/36$



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- Worksheet 3

Write the equation of the circle in standard form and find the center and the radius.

1. $x^2 + y^2 + 6x - 2y + 10 = 25$

2. $x^2 + y^2 + 10x + 25 = 9$

3. $x^2 + y^2 + 12x + 36 = 4/9$

4. $x^2 + y^2 - 4x - 12y + 40 = 64$

5. $x^2 + y^2 - 6x - 12y + 41 = 4$

6. $x^2 + y^2 + 8x + 12y + 52 = 81$

7. $x^2 + y^2 + 2x + 10y + 26 = 9$

8. $x^2 + y^2 + 2x + 4y + 5 = 16$

9. $x^2 + y^2 - 6x - 12y + 45 = 49$

10. $x^2 + y^2 + 2x - 6y + 10 = 49/64$



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- Worksheet 4

Write the equation of the circle in standard form and find the center and the radius.

1. $x^2 + y^2 + 2x - 10y + 26 = 81$

2. $x^2 + y^2 + 2x + 1 = 9$

3. $x^2 + y^2 + 6x + 9 = 9/16$

4. $x^2 + y^2 - 10x - 4y + 29 = 64$

5. $x^2 + y^2 - 2x - 4y + 5 = 25$

6. $x^2 + y^2 + 8x + 10y + 41 = 49$

7. $x^2 + y^2 + 6x + 10y + 34 = 64$

8. $x^2 + y^2 + 12x + 10y + 61 = 81$

9. $x^2 + y^2 - 4x - 8y + 20 = 9$

10. $x^2 + y^2 + 12x - 2y + 37 = 16/49$



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- Worksheet 5

Write the equation of the circle in standard form and find the center and the radius.

1. $x^2 + y^2 + 12x - 4y + 40 = 64$

2. $x^2 + y^2 + 4x + 4 = 16$

3. $x^2 + y^2 + 10x + 25 = 64/25$

4. $x^2 + y^2 - 2x - 4y + 5 = 49$

5. $x^2 + y^2 - 8x - 2y + 17 = 36$

6. $x^2 + y^2 + 2x + 6y + 10 = 81$

7. $x^2 + y^2 + 4x + 12y + 40 = 49$

8. $x^2 + y^2 + 2x + 10y + 26 = 64$

9. $x^2 + y^2 - 2x - 4y + 15 = 4$

10. $x^2 + y^2 + 10x - 12y + 61 = 25/81$

