Name: _____ Date _____

Topic : Graphs of Circles - Worksheet 1

Do the following:

1. Write the equation of a circle whose diameter is 12 and whose center is at (-6, -3)?

2. What are the coordinates of the center of this circle?
$(x + 4)^2 + (y - 3)^2 = 9$.

3. Write the equation of a circle that has a center at (4, -2) and diameter of 4?

4. The point (0, 2) is on the circle whose equation is
$(x - 2)^2 + (y)^2 = 25$. (True or False)

5. What are the coordinates of the center of this circle?
$(x + 3)^2 + (y - 3)^2 = 36$.

6. What are the coordinates of the center of this circle?
$(x)^2 + (y - 2)^2 = 72$.

7. Write the equation of a circle that has a center at (8, -4) and radius of 4?

8. Write the equation of a circle whose diameter is 9 and whose center is at (-2, 2)?

9. The point (-3, 0) is on the circle whose equation is
$(x - 3)^2 + (y)^2 = 16$. (True or False)

10. Write the equation of a circle that has a center at (4, -2) and radius of 7?

Name: _____ Date _____

Topic : Graphs of Circles - Worksheet 2

Do the following:

1. Write the equation of a circle whose diameter is 6 and whose center is at (-7, -4)?

2. What are the coordinates of the center of this circle?
$(x - 5)^2 + (y + 4)^2 = 25$.

3. Write the equation of a circle that has a center at (5, -3) and diameter of 10?

4. The point (0, 8) is on the circle whose equation is
$(x)^2 + (y - 2)^2 = 36$. (True or False)

5. What are the coordinates of the center of this circle?
$(x - 4)^2 + (y + 6)^2 = 64$.

6. What are the coordinates of the center of this circle?
$(x)^2 + (y + 3)^2 = 121$.

7. Write the equation of a circle that has a center at (9, -5) and radius of 5?

8. Write the equation of a circle whose diameter is 6 and whose center is at (-4, 4)?

9. The point (-6, 2) is inside the circle whose equation is
$(x + 4)^2 + (y)^2 = 81$. (True or False)

10. Write the equation of a circle that has a center at (6, -4) and radius of 8?

Name: _____ Date _____

Topic : Graphs of Circles - Worksheet 3

Do the following:

1. Write the equation of a circle whose diameter is 8 and whose center is at (-8, -5)?

2. What are the coordinates of the center of this circle?
$(x - 6)^2 + (y + 5)^2 = 169$.

3. Write the equation of a circle that has a center at (6, -4) and diameter of 10?

4. The point (-6, 1) is on the circle whose equation is
$(x + 2)^2 + (y - 1)^2 = 16$. (True or False)

5. What are the coordinates of the center of this circle?
$(x - 8)^2 + (y + 5)^2 = 4$.

6. What are the coordinates of the center of this circle?
$(x)^2 + (y + 4)^2 = 25$.

7. Write the equation of a circle that has a center at (2, -6) and radius of 6?

8. Write the equation of a circle whose diameter is 24 and whose center is at (-6, 6)?

9. The point (-8, 6) is on the circle whose equation is
$(x - 6)^2 + (y)^2 = 121$. (True or False)

10. Write the equation of a circle that has a center at (8, -6) and radius of 10?

Name: _____ Date _____

Topic : Graphs of Circles - Worksheet 4

Do the following:

1. Write the equation of a circle whose diameter is 16 and whose center is at (-9, -6)?

2. What are the coordinates of the center of this circle?
$(x - 8)^2 + (y + 7)^2 = 36$.

3. Write the equation of a circle that has a center at (8, -6) and diameter of 4?

4. The point (-2 , 0) is on the circle whose equation is
$(x + 1)^2 + (y + 1)^2 = 25$. (True or False)

5. What are the coordinates of the center of this circle?
$(x - 6)^2 + (y + 6)^2 = 196$.

6. What are the coordinates of the center of this circle?
$(x)^2 + (y + 5)^2 = 225$.

7. Write the equation of a circle that has a center at (3, -7) and radius of 8?

8. Write the equation of a circle whose diameter is 14 and whose center is at (-8, 8)?

9. The point (-9, 8) is inside the circle whose equation is
$(x + 8)^2 + (y)^2 = 100$. (True or False)

10. Write the equation of a circle that has a center at (9, -7) and radius of 12?

Name: _____ Date _____

Topic : Graphs of Circles - Worksheet 5

Do the following:

1. Write the equation of a circle whose diameter is 18 and whose center is at (-5, -8)?

2. What are the coordinates of the center of this circle?
$(x - 9)^2 + (y + 8)^2 = 16$.

3. Write the equation of a circle that has a center at (6, -3) and diameter of 20?

4. The point (0, -7) is on the circle whose equation is
$(x + 2)^2 + (y + 3)^2 = 9$. (True or False)

5. What are the coordinates of the center of this circle?
$(x - 8)^2 + (y + 9)^2 = 81$.

6. What are the coordinates of the center of this circle?
$(x)^2 + (y + 6)^2 = 49$.

7. Write the equation of a circle that has a center at (4, -8) and radius of 9?

8. Write the equation of a circle whose diameter is 30 and whose center is at (-5, 4)?

9. The point (-4, 6) is on the circle whose equation is
$(x + 6)^2 + (y)^2 = 81$. (True or False)

10. Write the equation of a circle that has a center at (2, -8) and radius of 4?