

I'm not robot!

Finding the Equation of Circles Problems - Matching Worksheet

Write the letter of the answer that matches the problem.

- _____

1. Find the equation of a circle whose center is at (5, - 1) and radius 3.
- _____

2. Find the equation of a circle that has a diameter with the endpoints given by the points A (-4, -2) and B (4, 2).
- _____

3. Find the equation of a circle whose center is at (4, - 5) and radius 9.
- _____

4. Find the equation of a circle that has a diameter with the endpoints given by the points A (-2, -2) and B (5, 4).
- _____

5. Find the equation of a circle whose center is at (4, - 7) and radius 8.
- _____

6. Find the equation of a circle that has a diameter with the endpoints given by the points A (-5, 4) and B (7, 9).
- _____

7. Find the equation of a circle whose center is at (-5, - 4) and radius 2.
- _____

8. Find the equation of a circle that has a diameter with the endpoints given by the points A (-5, 6) and B (7, -4).
- _____

9. Find the equation of a circle whose center is at (3, - 6) and radius 4.
- a.

$(x - 1.5)^2 + (y - 1)^2 = 21.25$
- b.

$(x - 4)^2 + (y + 5)^2 = 81$
- c.

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

$(x - 1)^2 + (y - 1)^2 = 61$
- e.

$(x - 3)^2 + (y + 6)^2 = 18$
- f.

$(x - 0)^2 + (y - 5)^2 = 20$
- g.

$(x - 5)^2 + (y + 1)^2 = 9$
- h.

$(x - 1)^2 + (y - 6.5)^2 = 42.25$
- i.

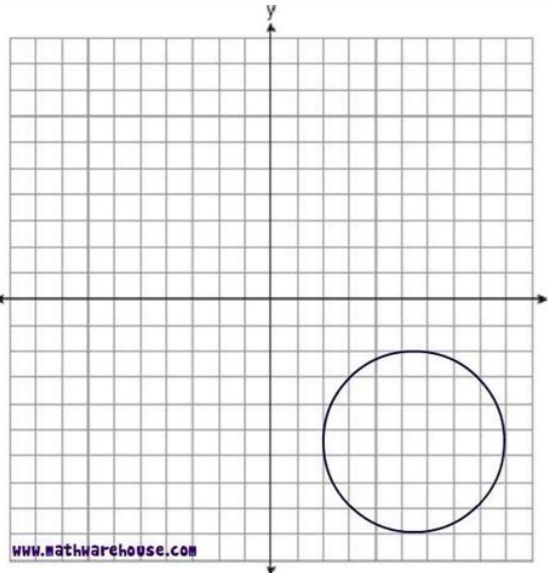
$(x - 4)^2 + (y + 7)^2 = 36$



Unit Circle Quiz

Evaluate:

1. $\left(\frac{\pi}{2}\right)^{-1}$
2. $\left(\frac{\pi}{2}\right)^{-1}$
3. $\left(\frac{\pi}{2}\right)^{-1}$
4. $\left(\frac{\pi}{2}\right)^{-1}$
5. $\left(\frac{\pi}{2}\right)^{-1}$
6. $\left(\frac{\pi}{2}\right)^{-1}$
7. $\left(\frac{\pi}{2}\right)^{-1}$
8. $\left(\frac{\pi}{2}\right)^{-1}$
9. $\pi\left(\frac{\pi}{2}\right)^{-1}$
10. $\pi\left(\frac{\pi}{2}\right)^{-1}$
11. $\left(\frac{\pi}{2}\right)^{-1}$
12. $\left(\frac{\pi}{2}\right)^{-1}$
13. $\left(\frac{\pi}{2}\right)^{-1}$
14. $\left(\frac{\pi}{2}\right)^{-1}$
15. $\left(\frac{\pi}{2}\right)^{-1}$



Name : _____

Score : _____ Date : _____



Solving Systems of Equations by Elimination Worksheet

Solve each system by elimination.

- ☐

5x + y = 9
10x - 7y = -18

☐

5x - 3y = 2
-5x + 3y = 8

- ☐

2x = -3y + 16
5x - 4y = -6

☐

6x + 6y = -6
5x + y = -13

- ☐

-4x + 9y = 9
x - 3y = -6

☐

-2x - 9y = -25
-4x - 9y = -23

- ☐

4x + 8y = 12
2x + 4y = -6

☐

-7x + y = -19
-2x + 3y = -19

Questions On Equations 2

1. $8n+2=42$
2. $4a+7=15$
3. $9+2f=21$
4. $4n-24=16$
5. $5+11r=126$
6. $39-3m=9$
7. $7a-3=305$
8. $68-5b=8$
9. $6r-3=93$

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Equation of a circle practice worksheet answers.

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Problem 1 :Write the standard equation of the circle whose center is (-4, 0) and radius is 7.Problem 2 : Write the standard equation of the circle whose general equation isx² + y² - 4x + 6y - 12 = 0Problem 3 : The point (1, 2) is on a circle whose center is (5, -1). Write the standard equation of the circle.Problem 4 :The equation of a circle is (x + 2)2 + (y - 3)2 = 9Graph the circle.Problem 5 :A bank of lights is arranged over a stage. Each light illuminates a circular area on the stage. A coordinate plane is used to arrange the lights, using the corner of stage as the origin. The equation (x - 13)2 + (y - 4)2 = 16 represents one of the disks of light. (i) Graph the disk of light. (ii) Three actors are located as follows : Henry is at (11, 4)Jolene is at (8, 5)Martin is at (15, 5)Which actors are in the disk of light ? 1. Answer :Given : Center = (-4, 0) and radius = 7.Standard equation of a circle. (x - h)2 + (y - k)2 = r2Substitute (h, k) = (-4, 0) and r = 7.[x - (-4)]2 + (y - 0)2 = 72Simplify. (x + 4)2 + y2 = 492. Answer :x2 + y2 - 4x + 6y - 12 = 0To find the standard equation of the circle, we need to know the center and radius. Let us find the center and radius from the given general equation of the circle. Comparing x2 + y2 + 2gx + 2fy + c = 0andx2 + y2 - 4x + 6y - 12 = 0,we have 2g = -4 ----> g = -22f = 6 ----> f = 3c = -12Center = (-g, -f) = (2, -3)Radius = √(g2 + f2 - c)Radius = √((-2)2 + 32 - (-12))Radius = √(4 + 9 + 12)Radius = √25Radius = 5Standard equation of a circle : (x - h)2 + (y - k)2 = r2Substitute (h, k) = (2, -3) and r = 5.(x - 2)2 + [y - (-3)]2 = 52Simplify. (x - 2)2 + (y + 3)2 = 253. Answer :Given : The point (1, 2) is on the circle and center of the circle is (5, -1).To find the standard equation of the circle, we need to know the center and radius. The center is already given and we need to find the radius.Using distance formula, we have Radius = √[(5 - 1)2 + (-1 - 2)2]Radius = √[42 + (-3)2]Radius = √[16 + 9]Radius = √25Radius = 5Standard equation of a circle : (x - h)2 + (y - k)2 = r2Plug (h, k) = (5, -1) and r = 5.(x - 5)2 + [y - (-1)]2 = 52Simplify. (x - 5)2 + (y + 1)2 = 524. Answer :x2 + y2 + (y - 3)2 = 9To graph a circle, we need to know the radius and center of the circle. Rewrite the equation to find the center and radius. (x + 2)2 + (y - 3)2 = 9[x - (-2)]2 + (y - 3)2 = 32So, the center is (-2, 3) and the radius is 3. To graph the circle, place the point of a compass at (-2, 3), set the radius at 3 units and swing the compass to draw a full circle. 5. Answer :Solution (i) : To graph the disk of light, we need to know the center and radius of the circle. Rewrite the equation to find the center and radius. (x - 13)2 + (y - 4)2 = 16(x - 13)2 + (y - 4)2 = 42So, the center is (13, 4) and the radius is 4. The circle with center at (13, 4) and radius 4 units shown below (Graph of the disk of light). Solution (ii) : The graph given above shows that Henry and Martin are both in the disk of light. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. ©All rights reserved. onlinemath4all.com Guides students solving equations that involve equations of circles. Demonstrates answer checking. Convert this equation into center - radius form. State the coordinates of the center of the circle and its radius. View worksheet Demonstrates how to solve more difficult problems. Write the center - radius equation of a circle with a center at (-2,5) and passes through the point (3,4). The radiuses obtained by using the distance formula. View worksheet A really great activity for allowing students to understand the concept of the equations of circles. View worksheet Students find the equations of circles in assorted problems. The answers can be found below. View worksheet Students are provided with problems to achieve the concepts of the equations of circles. View worksheet This tests the students ability to evaluate math statements with the equations of circles. View worksheet Answers for math worksheets, quiz, homework, and lessons. View worksheet How dare of you to think that I am an analyst! Some mathematicians become so tense these days that they that they do not go to sleep during seminars. Math worksheets and visual curriculum Identifying Parts: Easy Each worksheet has 9 problems identifying basic parts of a circle such as center, radius and diameter. Remember, we call name of a circle by its center. Identifying Parts: Moderate This section contains identifying parts of a circle such as tangent, chord, secant, and other basic parts. These handouts are ideal for 4th grade and 5th grade children. 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