

December 17, 2018 Monday

1) What is the center and the radius of the circle whose equation is  $(x-3)^2 + y^2 = 9$  (x-h)^2 + (y-k)^2 = r^2

C: (-3, 0) R: r=3.5

2) Convert the following to slope-intercept form of a line:  $y = mx + b$

-3x + 6y = 18  
+3x +3x  
6y = 3x + 18  
y = 3/6x + 18/6  
y = 1/2x + 3

3) Use the following function:  
f(x) = 2x^2 + 8x - 24

f(6) = 2(6)^2 + 8(6) - 24  
f(6) = 72 + 48 - 24  
f(6) = 96

Your semester exam is Wednesday!

Dec 13-3:35 PM

Geometry - Final Review May 2017

1.  $x^2 + y^2 = 20$  Graph the following circles. State the center and radius.

Center: \_\_\_\_\_ Radius: \_\_\_\_\_

2.  $(x-5)^2 + (y+2)^2 = 16$

Center: \_\_\_\_\_ Radius: \_\_\_\_\_

Convert the following circle equations to general form  $(Ax^2 + By^2 + Cx + Dy + E = 0)$

3)  $(x-9)^2 + (y+2)^2 = 64$  4)  $x^2 + 6y + 2y^2 = 26$  5)  $4x^2 + 4y + 2y^2 = 26$  6)  $4x^2 + 4y + 2y^2 = 26$

5. A circular disk drive has a diameter with endpoints at  $(0, 0)$  and  $(8, 0)$ . Find the center and radius of the disk drive. Write the equation of the circle in standard form.

6. Find the point that partitions the line segment in a 1:1 ratio with the endpoints  $(0, 4)$  and  $(-3, -7)$ .

7. Find the perimeter of the triangle with the vertices  $(-3, 2)$ ,  $(1, -5)$ , and  $(5, 4)$ . Using the distance formula:  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

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$Ax^2 + By^2 + Cx + Dy + E = 0$   $(x-h)^2 + (y-k)^2 = r^2$

Change the following equations to general form:

8)  $(x-4)^2 + (y-3)^2 = 9$   $(x-4)^2 + (y-3)^2 = 3^2$   
 $(x^2 - 8x + 16) + (y^2 - 6y + 9) = 9$   
 $x^2 - 8x + y^2 - 6y + 25 = 9$   
 $x^2 - 8x + y^2 - 6y + 16 = 9$   
 $x^2 - 8x + y^2 - 6y + 8 = 0$   
 C: (3, -8) R: 5

9) Find a radius of a circle that passes through the point  $(-3, 2)$  from circle  $C$ . Show your work.

10) Find the double-shaded region.

11) Find the area of the shaded region.

12) Find the area of the shaded region.

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Change the following equations to general form:

8)  $(x-4)^2 + (y-3)^2 = 9$

$(x^2 - 8x + 16) + (y^2 - 6y + 9) = 9$

$x^2 - 8x + y^2 - 6y + 25 = 9$

$x^2 - 8x + y^2 - 6y + 16 = 9$

$x^2 - 8x + y^2 - 6y + 8 = 0$

$x^2 + y^2 - 8x - 6y + 8 = 0$

$Ax^2 + By^2 + Cx + Dy + E = 0$

Dec 17-10:45 AM

Term	Notation	Venn Diagram
Set C is a <b>subset</b> of set B if every element of C is also an element of B.	$C \subset B$	
The <b>intersection</b> of sets A and B is the set of all elements that are in both A and B.	$A \cap B$	
The <b>union</b> of sets A and B is the set of all elements that are in A or B.	$A \cup B$	
The <b>complement</b> of set A is the set of all elements in the universal set U that are not in A.	$A^c$ or $\sim A$	

Dec 17-10:24 AM

14. Which of the following are mutually exclusive?

A. Choosing a King or a Diamond in a deck of cards  
 B. Choosing a hand student or math student in a classroom  
 C. Rolling a 2 and getting an even sum or a sum less than 7  
 D. Choosing Jack or 5 in a deck of cards

$P = \frac{\text{favor outcome}}{\text{all outcome}}$

The sum of 2 dice

16. P(even sum or a sum greater than 9)

17. P(sum less than 7 or a sum greater than 10)

18. P(odd sum or a sum less than 8)

Calendar - A month is chosen from a year

19. Find the probability of choosing a month that begins with a vowel.

20. Find the probability of choosing a month starting with the letter M or J.

21. Find the probability of selecting a month that begins and ends with a consonant.

22. Find the probability of selecting a month that begins with a consonant and then selecting another month begins with a consonant (without replacement).

23. Find the probability of choosing a month that starts with a vowel letter.

PE Class Survey of 100 Students

24. Use the data in the table to decide if liking PE is independent of your gender.

	Male	Female
Yes	38	12
No	31	19

NO

December 18, 2018 Tuesday

$Ax^2 + By^2 + Cx + Dy + E = 0$   $\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$   $d = \sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$

1) Change the following equations to general form. 2) Find the midpoint. 3) Find the distance.




$(x-4)^2 + (y-1)^2 = 9$   $x_1, y_1$   $x_2, y_2$   
 $(8, 4)$  and  $(-5, -7)$   $(-3, 2), (1, -5)$

$(x-4)(x-4) + (y-1)(y-1) = 9$   
 $x^2 - 4x - 4x + 16 + y^2 - 1y - 1y + 1 = 9$   $\left(\frac{8+5}{2}, \frac{4+7}{2}\right)$   $d = \sqrt{(1-3)^2 + (-5-2)^2}$   
 $x^2 - 8x + 16 + y^2 - 2y = 9$   $d = \sqrt{65}$   
 $x^2 - 8x + 8 + y^2 - 2y = 0$   $\left(\frac{3}{2}, -\frac{3}{2}\right)$   
 $x^2 + y^2 - 8x - 2y + 8 = 0$

Dec 13-3:36 PM

December 19, 2018, Wednesday

Geometry Semester Exam... Good Luck!

- Please announce the following to your students at the beginning of each Exam Period
  - We will not call into rooms to get students during exam periods, students will remain in the room until the Exam period is done
  - Students are not allowed to walk down to Burnt Hickory or McClure
  - Students who do not leave at 11:45 will go to the Cafeteria
  - Do not send them to another teacher
  - Do not send them to the front office
  - Do not tell them to text their parents saying they are done with their final and come get them

Dec 13-3:38 PM

$(x-h)^2 + (y-k)^2 = r^2$   $P = \frac{\text{favorable outcomes}}{\text{all outcomes}}$

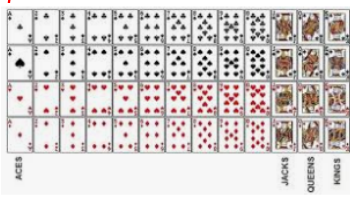
$y = mx + b$   $\rightarrow$  center  $(h, k)$

$d = \sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$   $m_1 = m_2$

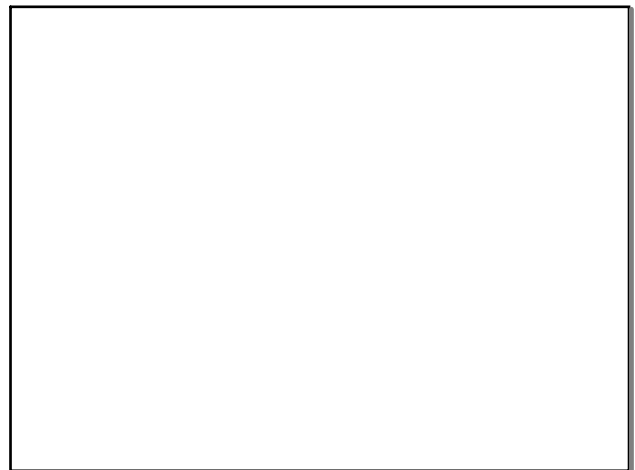
$Ax^2 + By^2 + Cx + Dy + E = 0$   $m_1 \neq m_2 \perp \rightarrow$  negative reciprocal

$\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

$m = \frac{y_2-y_1}{x_2-x_1}$



Dec 13-3:43 PM



Dec 18-1:42 PM