

Welcome! Please grab your ISN  
and have a seat!

Complete the edPuzzle on  
circles in your google  
classroom!!

Oct 30-7:49 AM

51

Strand 4



TITLE:

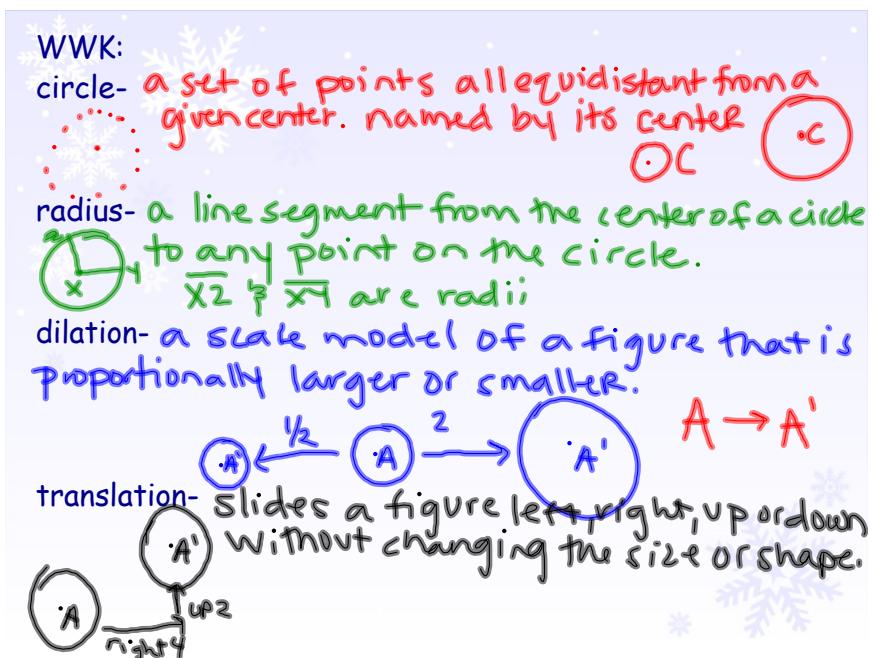
Circles

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Oct 30-8:00 AM

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
27	28	29	30	1	O quiz 1	3
4	5	6	7	8	O quiz 2	10
11	12	13 ISN	14 Quiz 2	15	16	17 → Christmas Break 12/17 - 1/4
1	2	3	4	5	6	7
8	9	10	11	12	O quiz 3	14
↑ NO SCHOOL! ↓						
1st day back!						

Nov 28-7:53 AM



Oct 30-8:01 AM

## TOC pg 56 Equation of a Circle

$(x-h)^2 + (y-k)^2 = r^2$   
 center  $(h, k)$  radius  $\sqrt{r^2} = r$

$1^2$	$1$
$2^2$	$4$
$3^2$	$9$
$4^2$	$16$
$5^2$	$25$
$6^2$	$36$
$7^2$	$49$
$8^2$	$64$
$9^2$	$81$
$10^2$	$100$
$11^2$	$121$
$12^2$	$144$
$13^2$	$169$
$14^2$	$196$
$15^2$	$225$

$x^2 + y^2 = 9$  center  $(0, 1)$   
 $r = \sqrt{9} = 3$

$(x-4)^2 + (y-1)^2 = 25$   
 center  $(4, 1)$   
 radius  $\sqrt{25} = 5$

$(x+1)^2 + (y-1)^2 = 8$   
 center  $(-1, 1)$   
 $r = \sqrt{8} = \sqrt{4} = 2$

$x^2 + y^2 = 144$   
 center  $(0, 0)$   
 $r = \sqrt{144} = 12$

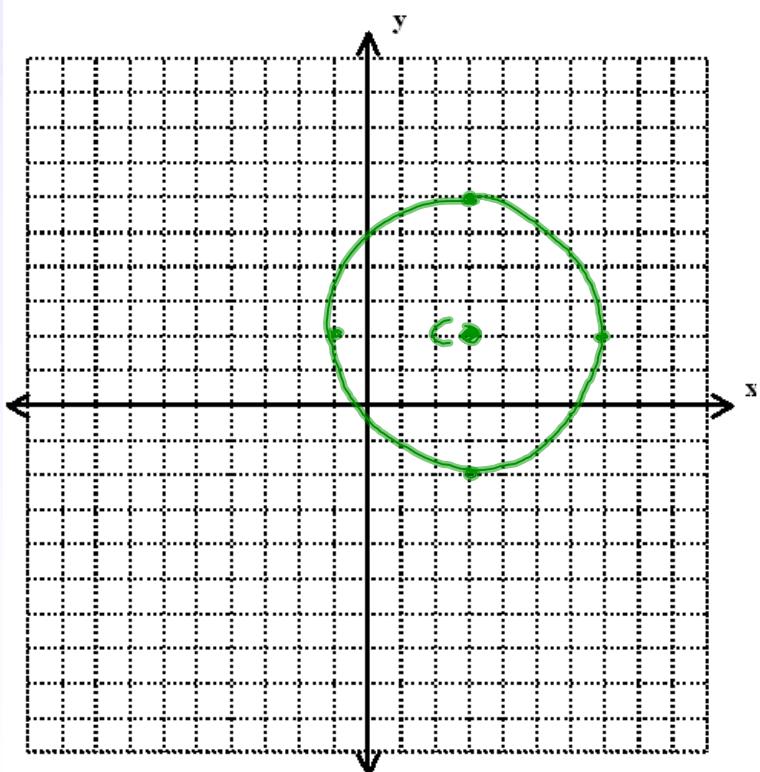
Oct 30-8:01 AM

## TOC pg 56 Equation of a Circle

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

center  $(3, 2)$

$$r = \sqrt{16} = 4$$



Oct 30-8:03 AM

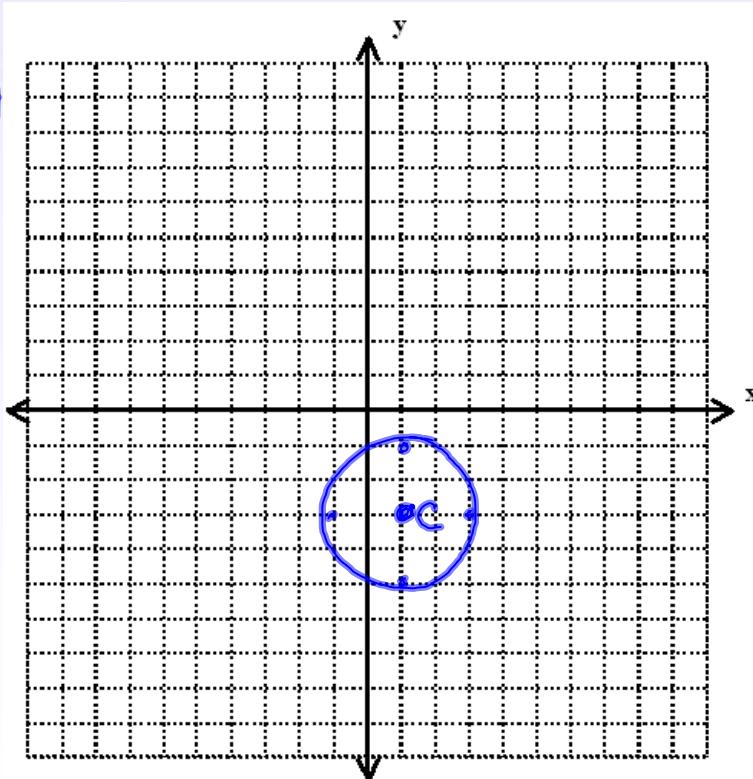


## TOC pg 56 Equation of a Circle

$$(x-1)^2 + (y+3)^2 = 4$$

$(1, -3)$  C

$$r = \sqrt{4} = 2$$



Oct 30 8:03 AM

### Part I

### HW:

Identify the coordinates of the center and the length of the radius in the circles below.

1)  $(X - 1)^2 + (y - 3)^2 = 9$       radius: \_\_\_\_\_      Center: (\_\_\_\_\_, \_\_\_\_\_)

2)  $(X + 14)^2 + (y - 5)^2 = 16$       radius: \_\_\_\_\_      Center: (\_\_\_\_\_, \_\_\_\_\_)

3)  $(X - 5)^2 + (y - 1)^2 = 25$       radius: \_\_\_\_\_      Center: (\_\_\_\_\_, \_\_\_\_\_)

### Part 2

Write the equation of the circle with the given radius and center:

4) C (5, -6) radius = 3

5) C (0, 0) radius = 8

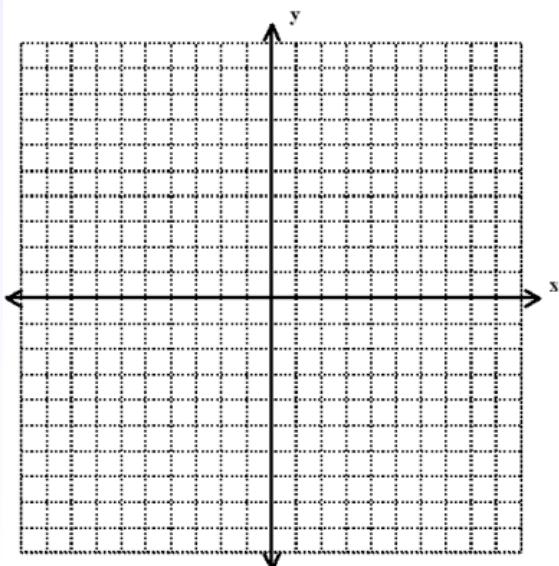
6) C (2, 4) radius = 1

Graph all 6 circles on one piece of graph paper... divide it into 4 sections and graph one in each section on the front, then the last two on the back.

Oct 30 9:11 AM

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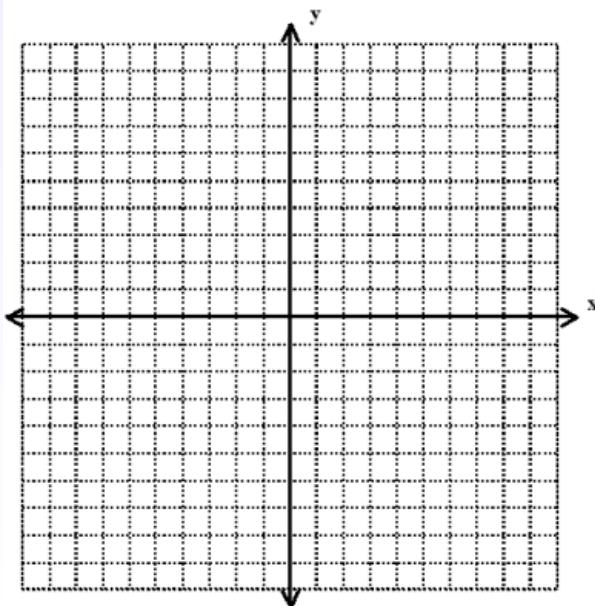
TOC pg 55 Equation of a Circle



Oct 30-8:03 AM

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TOC pg 55 Equation of a Circle

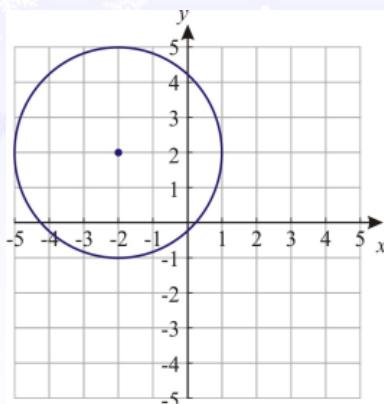


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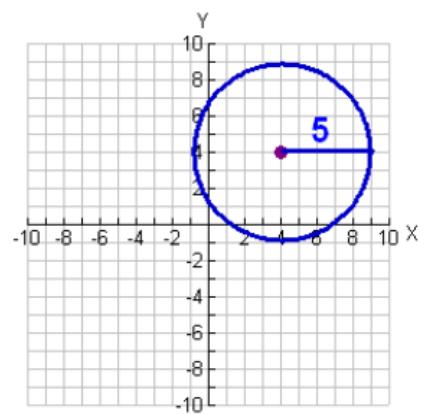
Welcome! Please grab your ISN and warmup and have a seat!

Give the equation of each circle:

1



2



Nov 2-10:27 AM