

$$y = a(x-h)^2 + k$$

$$y = \frac{1}{4p}(x-h)^2 + k$$

$$x = \frac{1}{4p}(y-k)^2 + h$$

26.

$$x - 3 = -\frac{1}{8}(y + 1)^2$$

$$x = -\frac{1}{8}(y - (-1)) + 3$$

$$x = \frac{1}{4p}(y - k) + h$$

Vertex (h, k) $(3, -1)$

Open left $p = -2$

$$x = -\frac{1}{8}(y+1)^2 + 3$$

X	Y
$2\frac{7}{8}$	0
1	3
$2\frac{1}{2}$	1
$2\frac{3}{8}$	5

Focus
(1, -1)

$p = 2$

(3, 1)

vertex

$x = 5$
Directrix

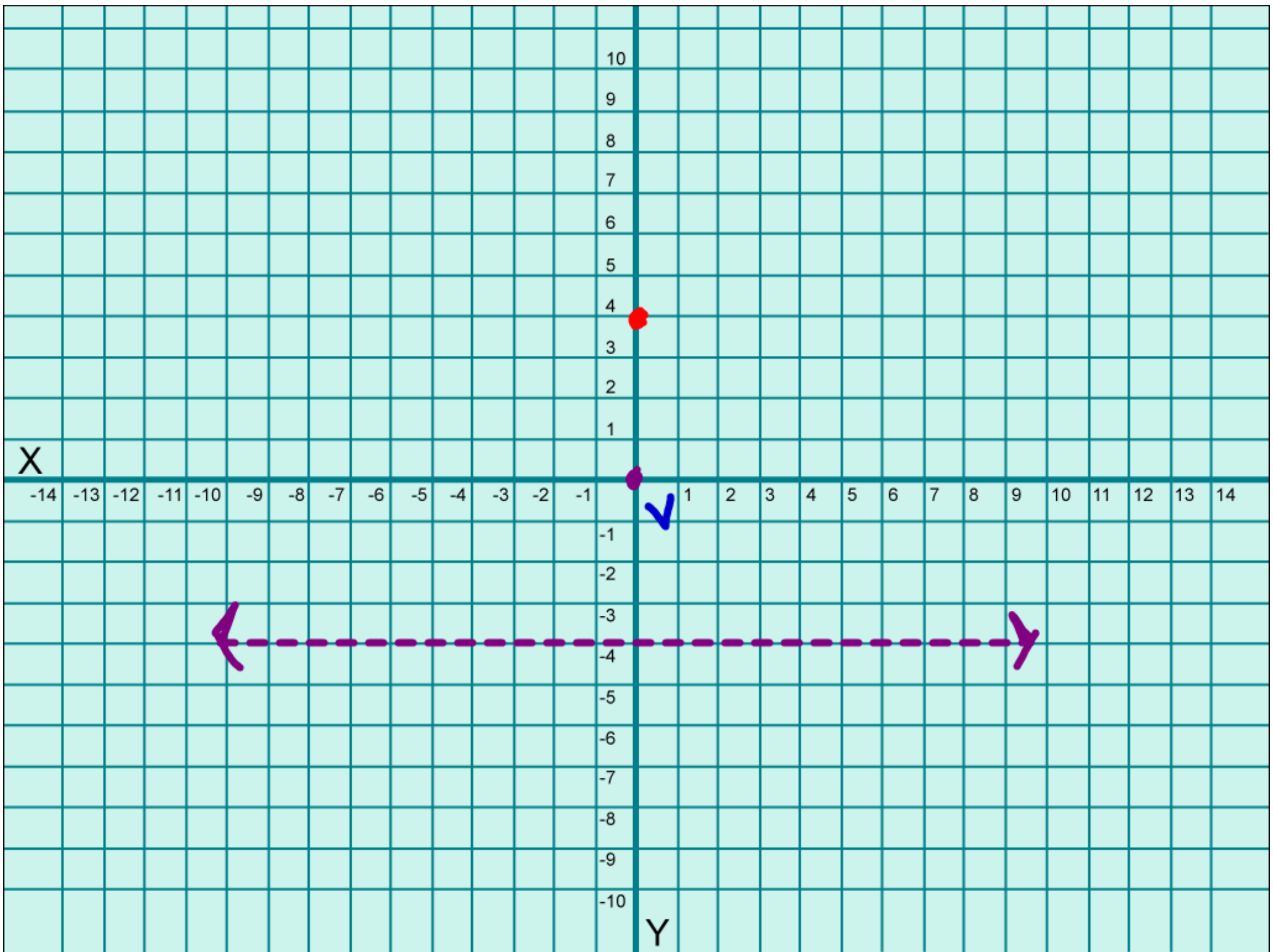


$$10. \quad \overset{h}{-2}, \overset{k}{2}$$

$$X = \frac{1}{4(3)} (y - 2)^2 + -2$$

$$X = \frac{1}{4p} (y - k)^2 + h$$

$$X = \frac{1}{12} (y - 2)^2 - 2$$



9.3 Circles

$$x^2 + y^2 = r^2$$

Center
(0,0)

Radius
 r

$$x^2 + y^2 = 25$$

Center (0,0)

Radius $r=5$

$$x^2 + y^2 = 36$$

Center
(0,0)

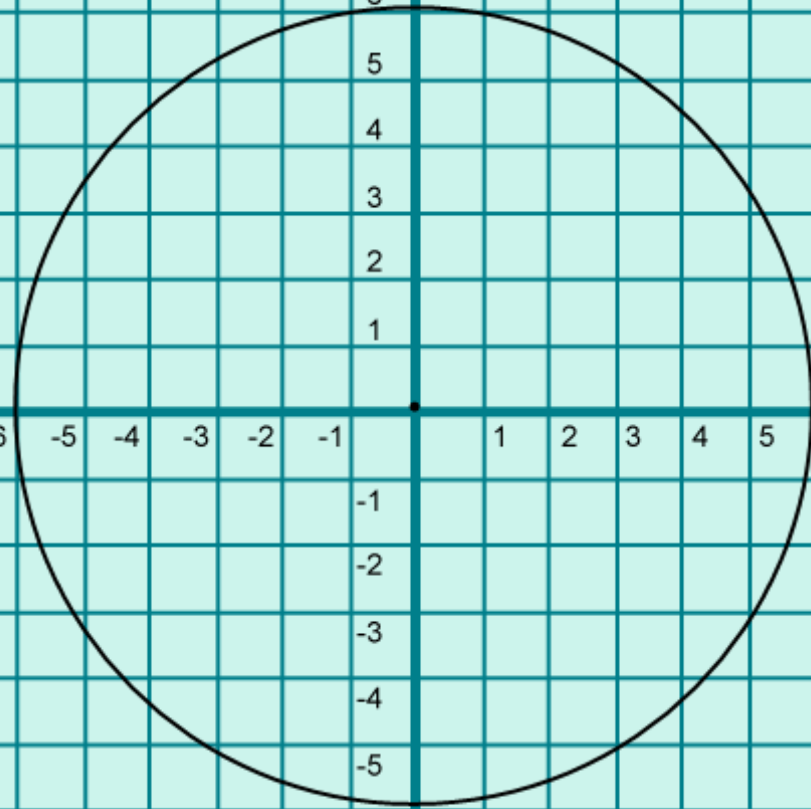
$$r = 6$$

X

-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14

10
9
8
7
6
5
4
3
2
1
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10

Y



$$(x-h)^2 + (y-k)^2 = r^2$$

Center (h, k)

Radius r

$$(x-2)^2 + (y+5)^2 = 49$$

Center $(2, -5)$

Radius $r=7$

$$(x+4)^2 + (y-3)^2 = 16$$

Center $(-4, 3)$

Radius $r=4$

Center $(1, -5)$

Radius $r = 2$

$$(x - 1)^2 + (y + 5)^2 = 4$$

Center

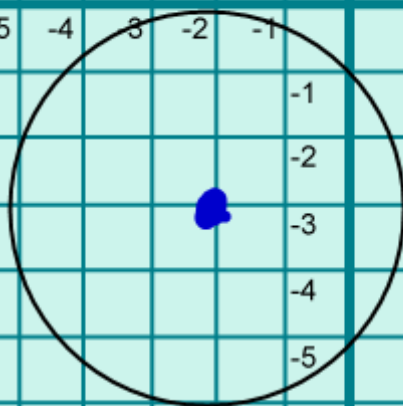
$(-2, -3)$

Radius $r=3$

$$(x+2)^2 + (y+3)^2 = 9$$

X

-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14



Y

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$$x^2 + 2x + y^2 + 6y = 6$$

$$(x^2 + 2x + 1) + (y^2 + 6y + 9) = 6 + 1 + 9$$

$$(x+1)^2 + (y+3)^2 = 16$$

2
2
1
-2
-

Center $(-1, -3)$
Radius $r = 4$

6
2
3
3
9

p576 10-46E

p583 8-40 x4
48

Monday p591 12-36 x4
Tues
Fri
Thurs

