Bellwork

Given circle M has an area of 3140 cm^2, and it has a sector AMC with area 314 cm^2. Find the indicated measure.

1. Radius of M.

2. Circumference of M.

3. m $\overset{\frown}{AC}$

4. Length of $\overset{\frown}{AC}$

Graphing Circles

Need to know:

1. The center of the circle
2. The radius of the circle

Standard Form of a Circle:

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

Where: (h, k) = the center of the circle

r = the radius of the circle

How to Graph

Procedure:

Step 1: Identify the center of the circle.
Plot this point.

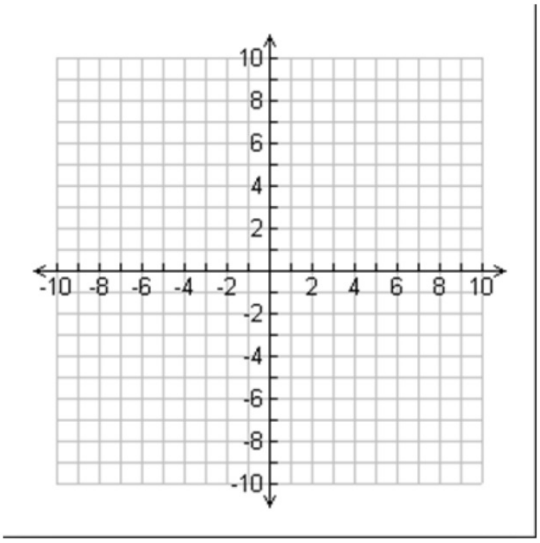
Step 2: Identify the radius of the circle.
Starting at the center go r units up, and make a dot.
Starting at the center go r units down, make a dot.
Starting at the center go r units left, make a dot.
Starting at the center go r units right, make a dot.

Step 3: Draw the circle connecting the dots created in Step 2 as best as you can.

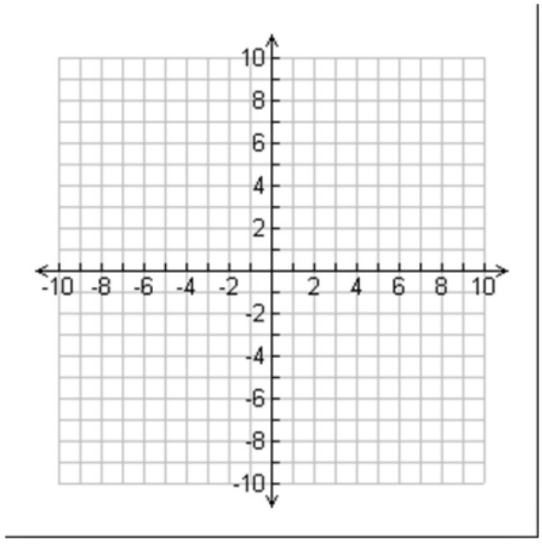
Examples

Graph each of the following circles:

1. $x^2 + y^2 = 100$



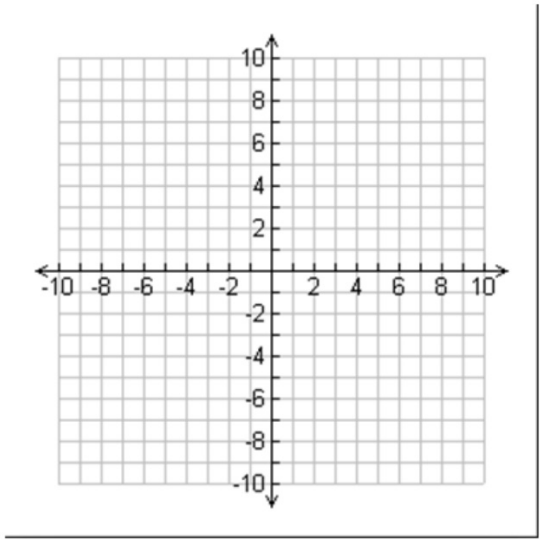
2. $x^2 + y^2 = 64$



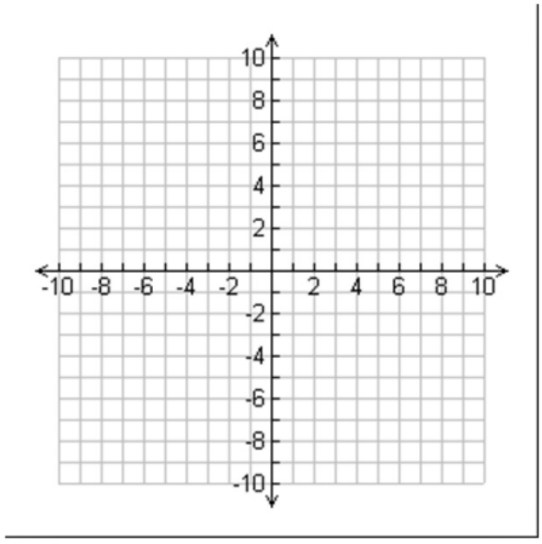
Examples

Graph each of the following circles:

3. $(x + 7)^2 + (y + 6)^2 = 9$



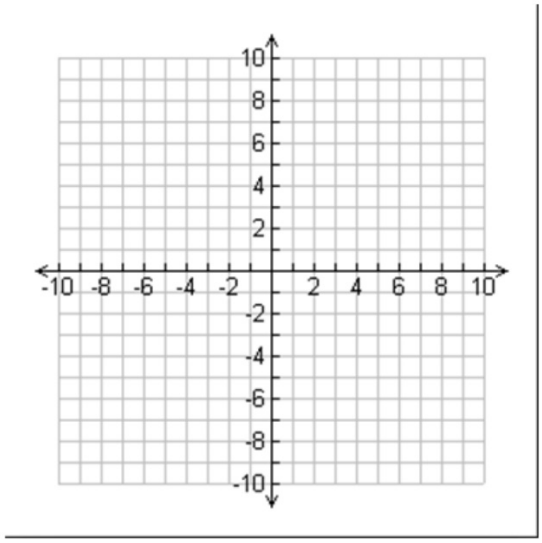
4. $(x + 2)^2 + (y - 4)^2 = 36$



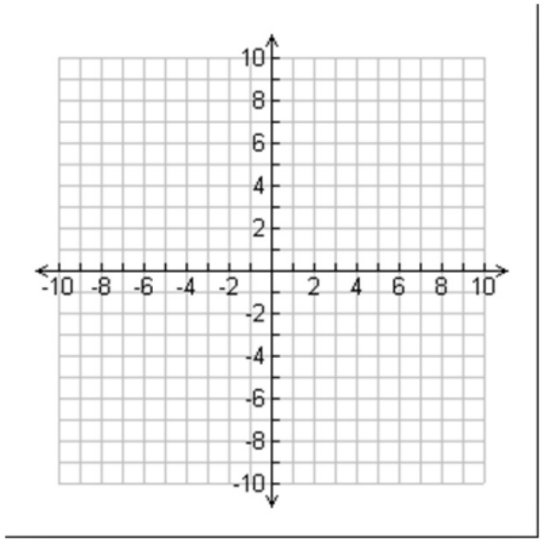
Examples

Graph each of the following circles:

5. $x^2 + (y + 3)^2 = 49$



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



Examples

Graph each of the following circles:

7. $(x + 5)^2 + (y - 3)^2 = 20$

8. $(x - 4)^2 + y^2 = 10$