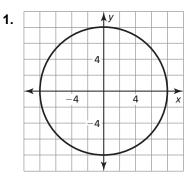
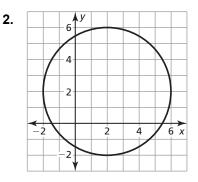
## 10.7 Notetaking with Vocabulary (continued)

### **Extra Practice**

In Exercises 1–4, write the standard equation of the circle.





**3.** a circle with center (0, 0) and radius  $\frac{1}{3}$  **4.** a circle with center (-3, -5) and radius 8

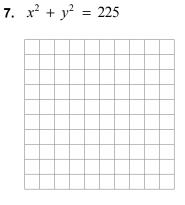
# In Exercises 5 and 6, use the given information to write the standard equation of the circle.

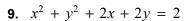
**5.** The center is (0, 0), and a point on the circle is (4, -3).

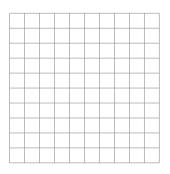
**6.** The center is (4, 5), and a point on the circle is (0, 8).

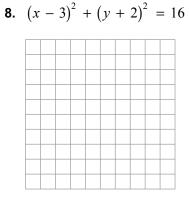
### **10.7** Notetaking with Vocabulary (continued)

In Exercises 7–10, find the center and radius of the circle. Then graph the circle.

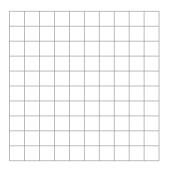








**10.** 
$$x^2 + y^2 - 3x + y = \frac{5}{2}$$



#### In Exercises 11 and 12, prove or disprove the statement.

**11.** The point (-4, 4) lies on the circle centered at the origin with radius 6.

**12.** The point (-1, 2) lies on the circle centered at (-4, -1) with radius  $3\sqrt{2}$ .

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