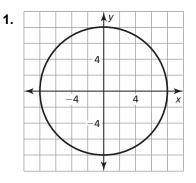
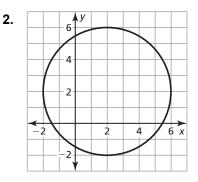
10.7 Notetaking with Vocabulary (continued)

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

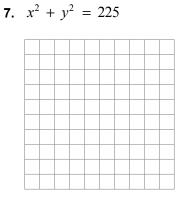
In Exercises 5 and 6, use the given information to write the standard equation of the circle.

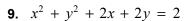
5. The center is (0, 0), and a point on the circle is (4, -3).

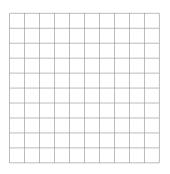
6. The center is (4, 5), and a point on the circle is (0, 8).

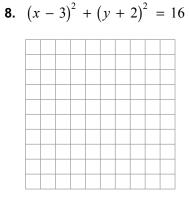
10.7 Notetaking with Vocabulary (continued)

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

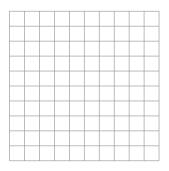








10.
$$x^2 + y^2 - 3x + y = \frac{5}{2}$$



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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