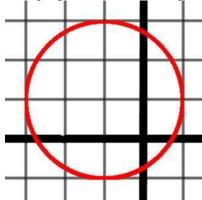
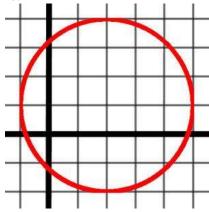
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Given the graphs of the following circles, write their equations.

1)



2)



Use the given information to solve each problem.

3) A cell tower was placed at (-2, 3) and a customer was located at (5, -21). If the tower is the center of a circle and the customer is a point on the circle, write the equation of a circle.

[Hint: Find the distance between the center and the point on the circle.]

4) Two towers were placed at two locations: (3, 10) and (11, -4). Locate the point that is halfway between them and call it the center of a circle. If the towers are points on a circle, write the equation of the circle

- 5) A center of a circle is at (4, -5). The circle passes through (2, 1). Explain the steps you need to take to find the equation of the circle.
- 6) Use your explanation for #5 to actually find the equation of the circle.