Algebra 2
Unit: Conic Sections
Section: Circles

Flash Cards: Graphing Circles

Directions: Graph the following circles.

1. Graph: x squared plus y squared equals 25.

2. Graph: x minus 1 quantity squared plus y minus 1 quantity squared equals 4

3. Graph: : x minus 2 quantity squared plus y plus 1 quantity squared equals 9

4. Graph: : x plus 3 quantity squared plus y plus 2 quantity squared equals 5

Answers:

1. This circle has its center at the point (0, 0) and radius equal to 5. It goes through the points (5, 0), (0, 5), (negative 5, 0) and (0, negative 5).

2. This circle has its center at the point (1, 1) and radius equal to 2. It goes through the points (3, 1), (1, 3), (negative 1, 1) and (1, negative 1).

3. This circle has its center at the point (2, negative 1) and radius equal to 3. It goes through the points (5, negative 1), (2, 2), (negative 1, negative 1) and (2, negative 4).

4. This circle has its center at the point (negative 3, negative 2) and radius equal to square root of 5. It goes through the points (negative 3 plus square root of 5, negative 2), (negative 3, negative 2 plus square root of 5), (negative 3 minus square root of 5, negative 2) and (negative 3, negative 2 minus square root of 5).