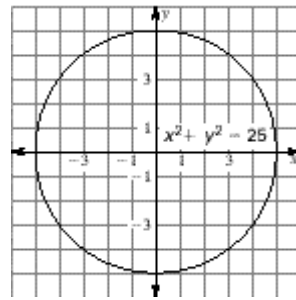


Answer Key

Challenge: Skills and Applications

1. 4, -4 2. no

3.



4. The relation is not a function because a vertical line can intersect the graph in more than one place.

5. *Sample answer:* $y \geq 0$ 6. Accept reasonable answers. *Sample answer:* 0 to 4 seconds 7. Accept reasonable answers. *Sample answer:* 0 to 15 feet

8. *Sample answer:* all whole numbers of people from 0 through 30

9. *Sample answer:* all whole numbers of crafts from 0 through 90

10. *Sample answer:* (3, 5), (2, 1), (1, 2) (4, 6) (2, 2); 8, 3, 3, 10, 4

11. 36 12. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12