## Logarithmic Functions





0.5

0.5

1.0

-0.5

-1.0

-1.5

-2.0



12. (a.) (−6,∞)

13. What power of 3 is 81?

14. Reflect about the line y = x

## **Distance and Midpoint Formulas**

- 1. Perimeter = $10 + 10\sqrt{2}$  , Area= 25
- 2. (a.)  $2\sqrt{10}$

(b.)3

- 3. (a.) (6, 5) (b.)  $(3\sqrt{2}, 0)$
- 4.  $x^2 + y^2 = 64$
- 5. (a.) Center:(0,0), Radius: 7
  - (b.) Center: (2, 3), Radius: 4
- 6. Standard Form:  $(x + 4)^2 + (y + 2)^2 = 4$ , Center: (-4, -2), Radius: 2

Algebra Problem Session #14 Solutions

- 7. Complete the square.
- 8. No, the empty set, assuming x and y are real variables.

9. Yes.