WORKSHEET 7.4 INVERSE FUNCTIONS

Inverse Relations

Find the inverse for each relation.

$$\{(1, -3), (-2, 3), (5, 1), (6, 4)\}$$
 2. $\{(-5, 7), (-6, -8), (1, -2), (10, 3)\}$

Finding Inverses
Find an equation for the inverse for each of the following relations.

3.
$$y = 3x + 2$$

4.
$$y = -5x - 7$$

3.
$$y = 3x + 2$$
 4. $y = -5x - 7$ 5. $y = 12x - 3$

6.
$$y = -8x + 16$$

7.
$$y = \frac{2}{3}x - 5$$

6.
$$y = -8x + 16$$
 7. $y = \frac{2}{3}x - 5$ 8. $y = -\frac{3}{4}x + 5$

9.
$$y = -\frac{5}{8}x + 10$$
 10. $y = \frac{1}{2}x + 8$ 11. $y = x^2 + 5$

10.
$$y = \frac{1}{2}x + 8$$

11.
$$y = x^2 + 5$$

12.
$$y = x^2 - 4$$

12.
$$y = x^2 - 4$$
 13. $y = (x + 3)^2$ 14. $y = (x - 6)^3$

14.
$$y = (x - 6)^2$$

15.
$$y = \sqrt{x - 2}, y \ge 0$$

6.
$$y = \sqrt{x+5}, y \ge 0$$

15.
$$y = \sqrt{x-2}, y \ge 0$$
 16. $y = \sqrt{x+5}, y \ge 0$ 17. $y = \sqrt{x+8}, y \ge 8$

18.
$$y = \sqrt{x} - 7, y \ge -7$$

Verifying Inverses
Verify that / and g are inverse functions.

19.
$$f(x) = x + 6$$
, $g(x) = x - 6$

19.
$$f(x) = x + 6$$
, $g(x) = x - 6$ 20. $f(x) = 5x + 2$, $g(x) = \frac{x - 2}{5}$

21.
$$f(x) = -3x - 9$$
, $g(x) = -\frac{1}{3}x - 3$ 22. $f(x) = 2x - 7$, $g(x) = \frac{x + 7}{2}$

$$f(x) = 2x - 7, g(x) = \frac{x + 7}{2}$$

23.
$$f(x) = -4x + 8$$
, $g(x) = -\frac{1}{4}x + 2$ 24. $f(x) = \frac{1}{2}x - 7$, $g(x) = 2x + 14$

$$f(x) = \frac{1}{2}x - 7$$
, $g(x) = 2x + 14$

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