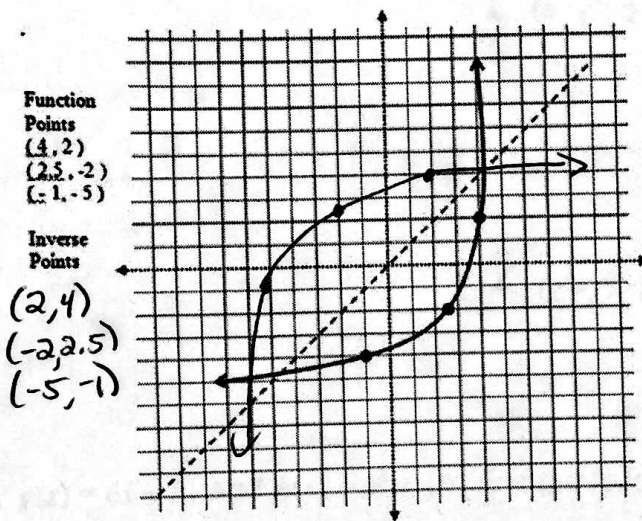


5 - Finding Inverses

Graph the inverse of the function shown below. Then, list the inverse coordinates of the given points.



Determine the inverse of each function.

1. $f = \{(1, -2), (-2, 1), (0, 7)\}$

$$f^{-1} = \{(2, 1), (1, -2), (7, 0)\}$$

2. $f = \{(-6, 3), (8, 2), (3, 3)\}$

$$f^{-1} = \{(3, -6), (2, 8), (3, 3)\}$$

3. $f(x) = 15x - 1$

$$f^{-1}(x) = \frac{x+1}{15}$$

4. $y = \sqrt{x-3} + 2$

$$y^{-1} = (x-2)^2 + 3$$

5. $g(x) = (x-2)^2 + 5$

$$g^{-1}(x) = \sqrt{(x-5)} + 2$$

6. $y = 4\sqrt[3]{x} - \frac{1}{2}$

$$y^{-1} = \left(\frac{x + \frac{1}{2}}{4}\right)^3$$

7. $h(x) = \frac{7x+5}{4}$

$$h^{-1}(x) = \frac{4x-5}{7}$$