

## 3.1 Inverses

Period \_\_\_\_\_

**Find the inverse of each function.**

1)  $\{(1,5),(2,7),(3,4)(4,6),(5,9)\}$

2)  $\{(0,1),(1,1),(1,2)(1,3),(1,5)\}$

3)  $y = \frac{x+3}{5}$

4)  $y = -5x$

5)  $y = \sqrt{x} + 1$

6)  $y = 2(x+1)^2$

7)  $y = \sqrt[3]{x} - 3$

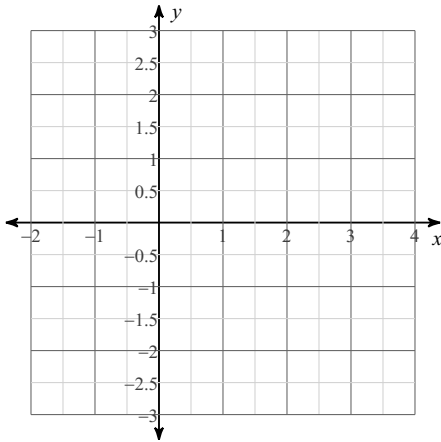
8)  $y = \frac{-10+7x}{2}$

9)  $y = (x-1)^3 + 3$

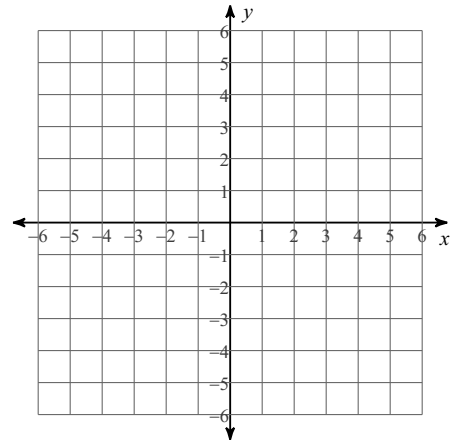
10)  $y = \frac{3}{x-1}$

**Graph the inverse of the following functions:**

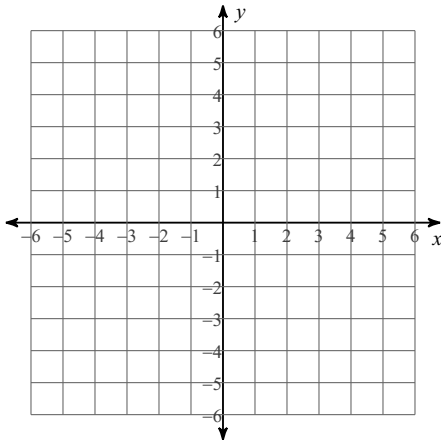
11)  $y = x^2 - 4x + 2$



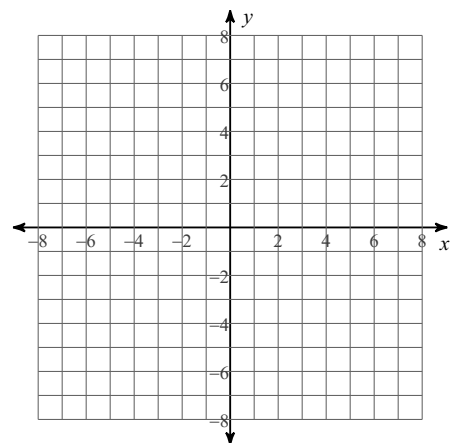
12)  $3x + y = 2$



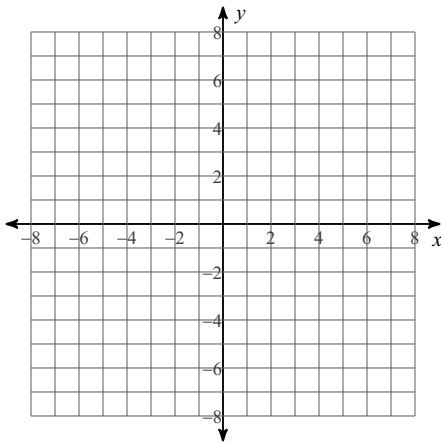
13)  $7x + 2y = 10$



14)  $y = \sqrt[3]{x + 6}$



15)  $y = 1 + \sqrt[3]{x + 2}$



16)  $f(x) = -x^3 + 2x^2 + 4$

