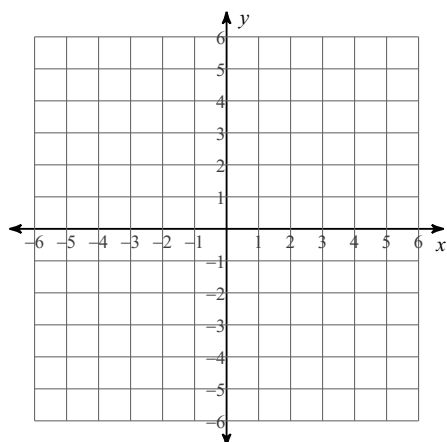


6.4 Inverse Functions

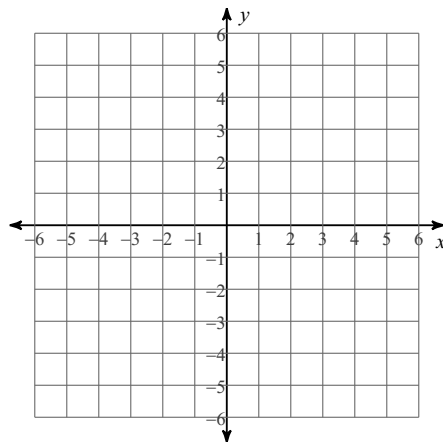
Period _____

Graphing the function and its inverse.

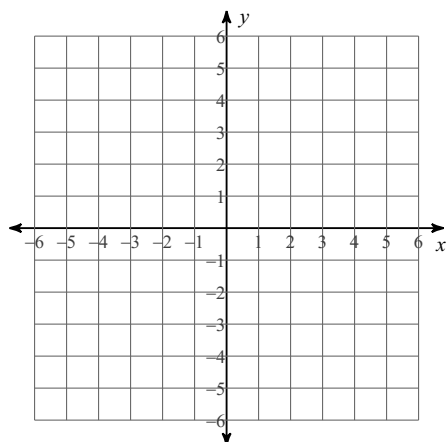
1) $f(x) = \frac{-2x + 5}{5}$



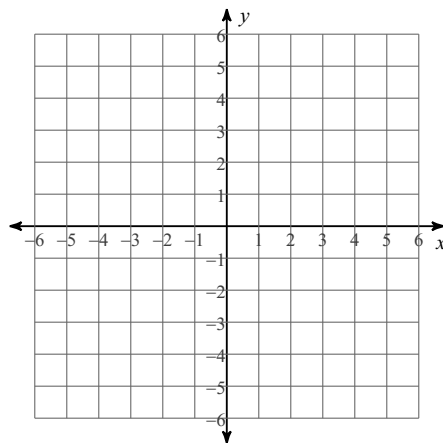
2) $f(x) = 2x + 8$



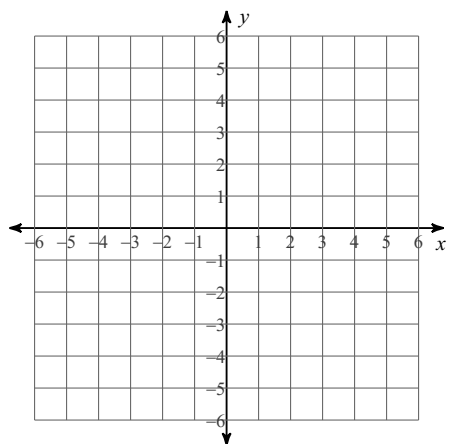
3) $g(x) = x - 4$



4) $f(x) = 2x + 2$



5) $h(x) = 2x^3 - 2$



Find the inverse of each function.

6) $h(x) = \frac{5x + 7}{9}$

7) $f(x) = 3x + 8$

8) $g(x) = 1 - 2x^5$

9) $h(x) = -(x + 2)^5$

$$10) f(x) = \frac{20 + x}{5}$$

$$11) h(x) = \frac{3x + 9}{8}$$

$$12) f(x) = -1 - x^3$$

$$13) g(x) = (x - 2)^3 - 2$$

State if the given functions are inverses.

$$14) \begin{aligned} f(x) &= 7x - 2 \\ g(x) &= 2x - 6 \end{aligned}$$

$$15) \begin{aligned} f(n) &= \frac{n + 1}{4} \\ g(n) &= 4n - 1 \end{aligned}$$

$$16) \begin{aligned} f(x) &= -2x - 10 \\ g(x) &= \frac{-10 - x}{2} \end{aligned}$$

$$17) \begin{aligned} h(n) &= \frac{n + 3}{3} \\ f(n) &= 3n - 3 \end{aligned}$$