

## Musical Chairs #2

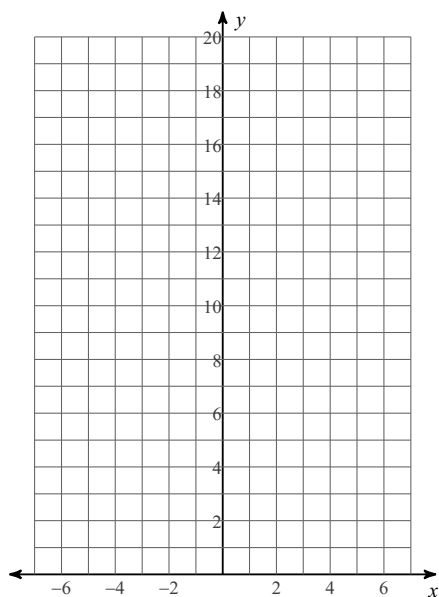
Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the inverse of each function.**

1)  $f(x) = \frac{1}{x-3} + 2$

**Make a table of values. Sketch the graph of the function.**

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

**Perform the indicated operation.**

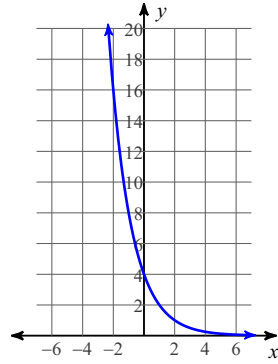
$$3) \begin{aligned} f(x) &= 3x + 1 \\ g(x) &= x - 4 \\ \text{Find } (f \circ g)(x) \end{aligned}$$

$$4) \begin{aligned} f(t) &= t^2 + 4t \\ g(t) &= 2t - 5 \\ \text{Find } (f \circ g)\left(\frac{t}{2}\right) \end{aligned}$$

## Answers to Musical Chairs #2

1)  $f^{-1}(x) = \frac{1}{x-2} + 3$

2)



3)  $3x - 11$

4)  $t^2 - 6t + 5$