Find the Inverse of Function.

1. $f(x) = 10 - 4x$

2. $g(x) = 15x - 10$

3. $h(x) = \frac{x-12}{4}$

4. $k(x) = \frac{3x+1}{6}$
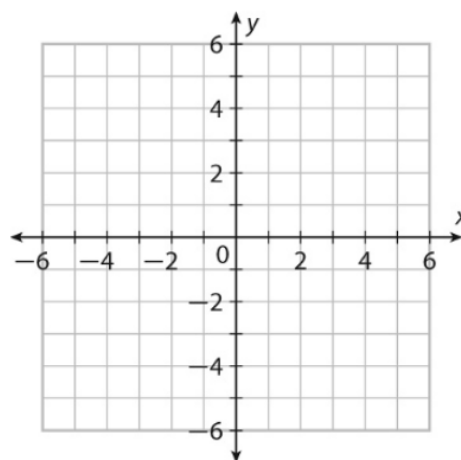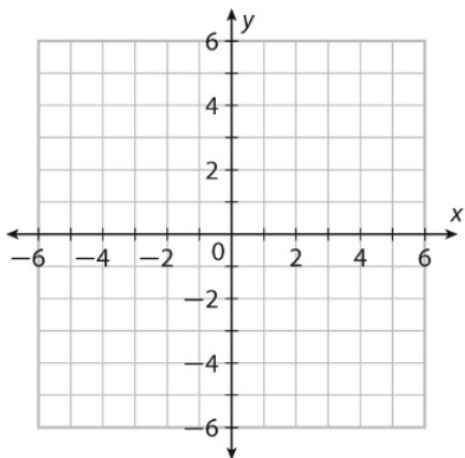
Find the inverse of each function. Then graph the function AND its inverse.

5. $f(x) = 5x + 10$

6. $g(x) = \frac{9}{2}x - 5$

$f^{-1}(x) = $_____

$g^{-1}(x) = $_____

Use composition to determine whether each pair of functions are inverses.

7. $g(x) = -\frac{7}{2}x - 5$ and $f(x) = -\frac{2}{7}x - \frac{10}{7}$

8. $s(x) = -2x + 7$ and $t(x) = \frac{1}{2}x + \frac{7}{2}$

9. $h(x) = \frac{1}{3}x + 4$ and $j(x) = 3x - 12$