C12 - 10.1 - Function Operations HW

$f(x) = x + 3$

$Find$:

$f(2) =$ $f(-5) =$ $f(x+2) =$ $f(2x) =$

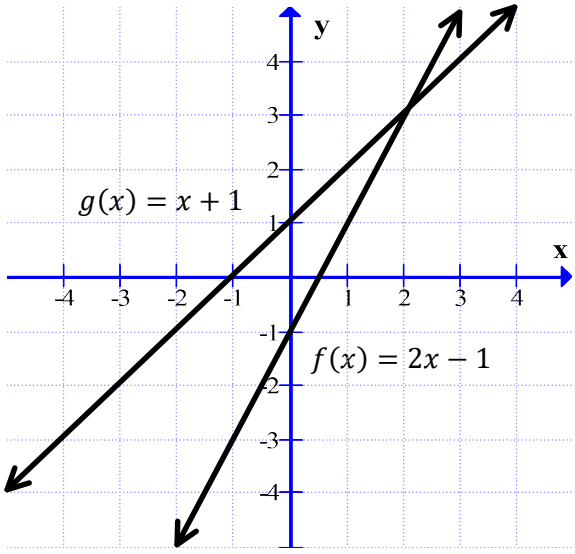
$g(x) = x^2$

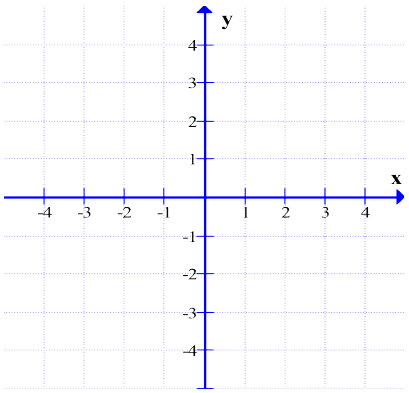
$g(2) =$ $g(-5) =$ $g(x+2) =$ $g(2x) =$

$m(x) = (x-2)^2 + 4$

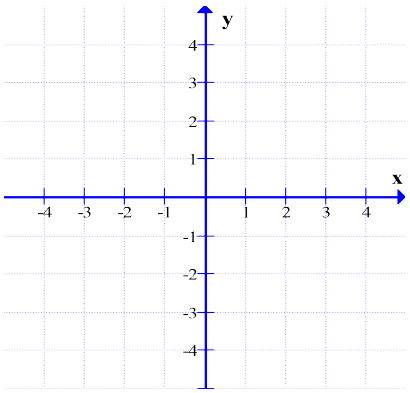
$m(2) =$ $m(-5) =$ $m(x+2) =$ $m(2x) =$

C12 - 10.1 - Operation Graphs HW

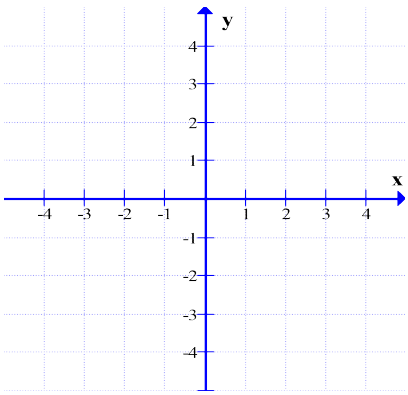




Find and Draw $f(x) + g(x)$

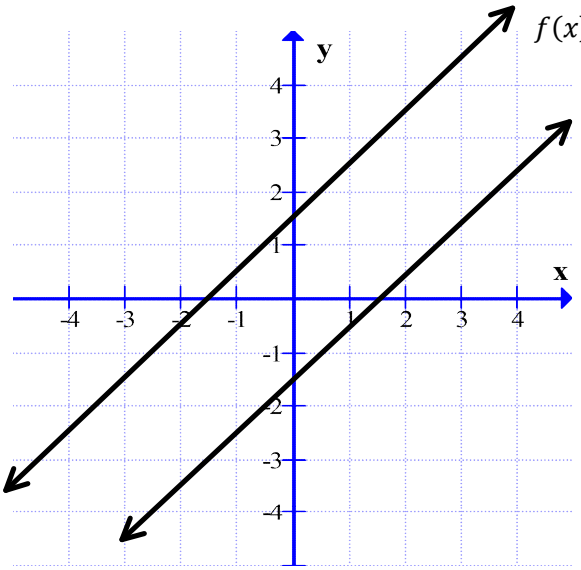


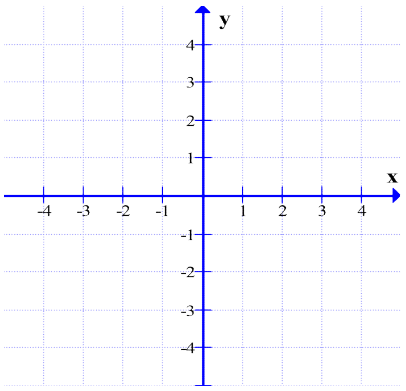
Find and Draw $f(x) - g(x)$



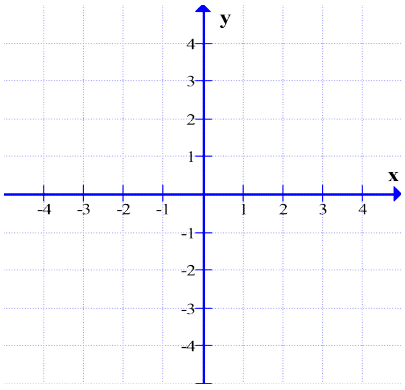
Find and Draw $f(x)g(x)$

C12 - 10.1 - Opreration Graphs HW

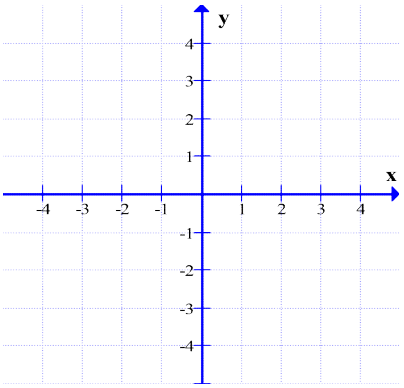




Find and Draw $f(x) + g(x)$

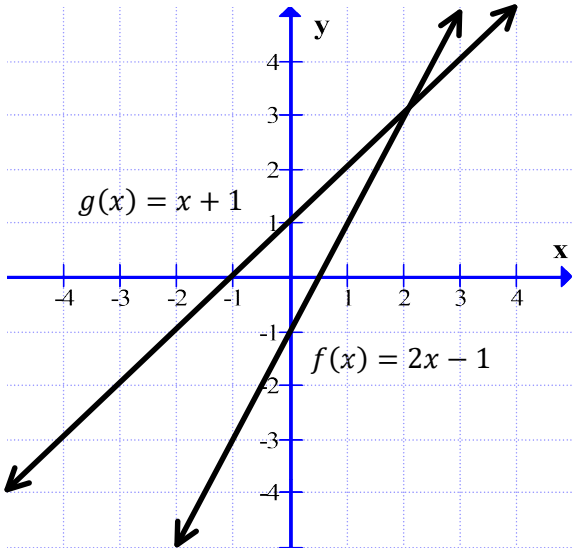


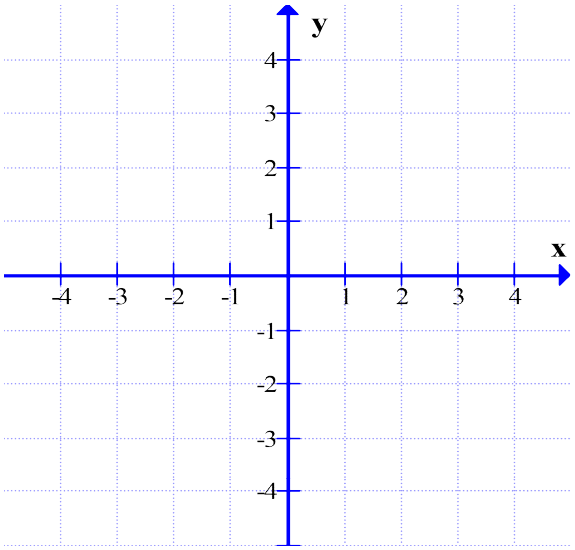
Find and Draw $f(x) - g(x)$



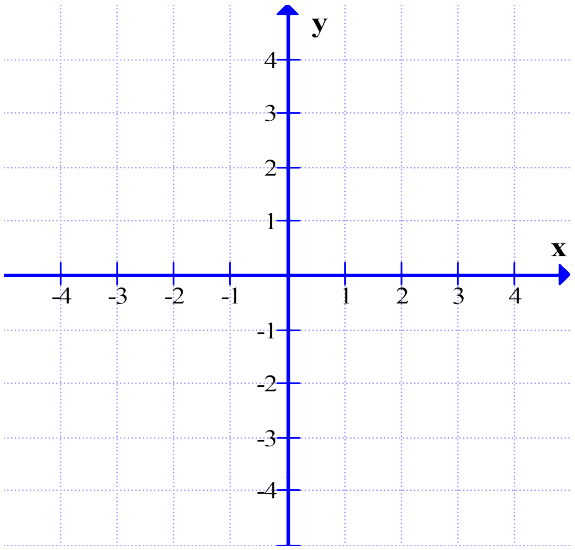
Find and Draw $f(x)g(x)$

C12 - 10.2 - Composite Graphs HW





Find and Draw $f(g(x))$



Find and Draw $g(f(x))$

C12 - 10.2 - Composite Functions HW

$f(x) = x + 1$ $g(x) = 3x$

Find:

$f(g(x)) =$ $g(f(x)) =$

$f(g(2)) =$ $g(f(x)) = 0$

$g(x) = (x - 1)$ $f(g(x)) = x^2 - 2x + 1$ $f(x) = ?$

$f(x) = (x - 1)$ $g(f(x)) = x^2 - 2x - 3$ $g(x) = ?$

C12 - 10.2 - Composite FoG HMK

$@(x) \neq 0,1, x \text{ or } @(x)$

Find $f(x)$ *and* $g(x)$ *if*: $h(x) = (x-1)^2 - 4$

$h(x) = f(x) + g(x)$

$h(x) = f(x) - g(x)$

$h(x) = f(x)g(x)$

$h(x) = f(g(x))$

Find $f(x)$ *and* $g(x)$ *if*: $h(x) = x^2 - 2x - 3$

$h(x) = f(g(x))$

$h(x) = 2x^2 - 6x - 8$

Note: Complete the square

Note: Factor