**1.13** 1) 
$$(f \circ g)(x) = f(g(x)) = f(x-2) = 3(x-2) = 3x-6$$

2) 
$$(g \circ f)(x) = g(f(x)) = g(3x) = 3x - 2$$

3) 
$$(f \circ f)(x) = f(f(x)) = f(3x) = 3 \cdot 3x = 9x$$

4) 
$$(f \circ g \circ h)(x) = f(g(h(x))) = f(g(2x-3)) = f((2x-3)-2) = f(2x-5) = 3(2x-5) = 6x-15$$

5) 
$$(g \circ f \circ h)(x) = g(f(h(x))) = g(f(2x-3)) = g(3(2x-3)) = g(6x-9) = (6x-9) - 2 = 6x - 11$$

6) 
$$(h \circ g \circ h)(x) = h(g(h(x))) = h(g(2x - 3)) = h((2x - 3) - 2) = h(2x - 5) = 2(2x - 5) - 3 = 4x - 13$$