If 
$$f(x) = 4x$$
,  $g(x) = 2x - 1$ , and  $h(x) = x^2 + 1$ ,

**34.** 
$$f[g(-1)]$$

$$g(-1) = 2(-1) - 1 = -3$$

$$f(g(-1)) = f(-3) = 4(-3) = -12$$

## **42.** $[g \circ (f \circ h)](3)$

$$h(3) = 3^{2} + 1 = 10$$

$$f(h(3)) = f(10) = 4(10) = 40$$

$$g(f(13)) = g(40) = 2(40) - 1 = 59$$

**30.** 
$$g(x) = x + 2$$
  
 $h(x) = x^2$ 

$$[goh](x) = g[h(x)] = g(x^2) = x^2 + 2$$

