

Example 3:

Graph $f(x) = x$.

a) Write the resulting equation from the following translation:

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

Graph $g(x)$. Describe the translation from $f(x)$ to $g(x)$

b) Write the resulting equation from: $h(x) = 3[f(x)]$

Example 4:

Graph $h(x)$. Describe the translation from $f(x)$ to $h(x)$

a) $g(x)$ is shifted down 2 units

b) $h(x)$ is a vertical stretch. Slope changes from 1 to 3.