

The graph of $f(x)$ is given below. Use it to graph the following.

a) $f(3x)$

b) $f(-x)$

c) $f(-2x)$

d) $f(x - 1)$

e) $f(x) + 1$

f) $5f(x)$

g) $f(x + 2)$

h) $5f(3x + 2) + 1$

i) In your own words, describe the manner in which the graph of $f(x)$ changes when we: multiply $f(x)$ by a constant; add a constant to $f(x)$; multiply x by a constant; add a constant to x .

j) Describe the process of drawing $u(x) = af(bx + c) + d$, where a , b , c , and d are constants when given only the graph of $f(x)$.

