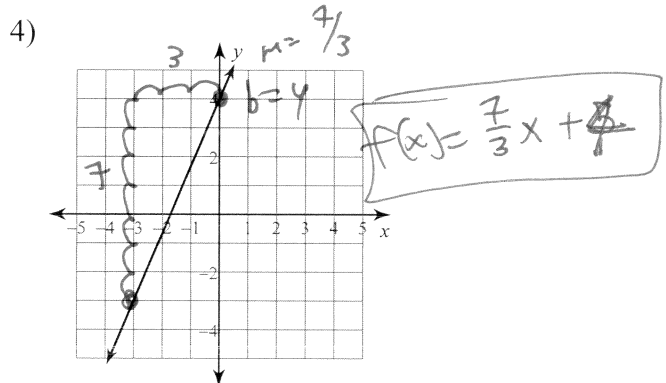
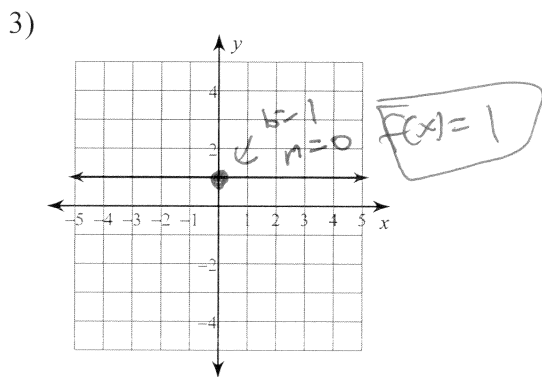
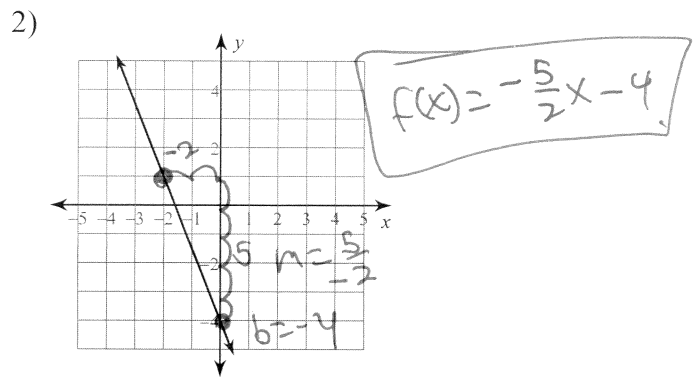
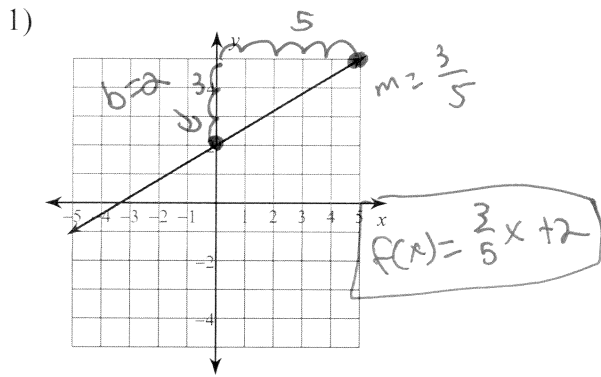


Chapter 1 Quiz Review

Write the linear function of the graph in the form $f(x)=mx+b$.

$m = \frac{\text{rise}}{\text{run}}$, $b = y\text{-int}$



Evaluate each function.

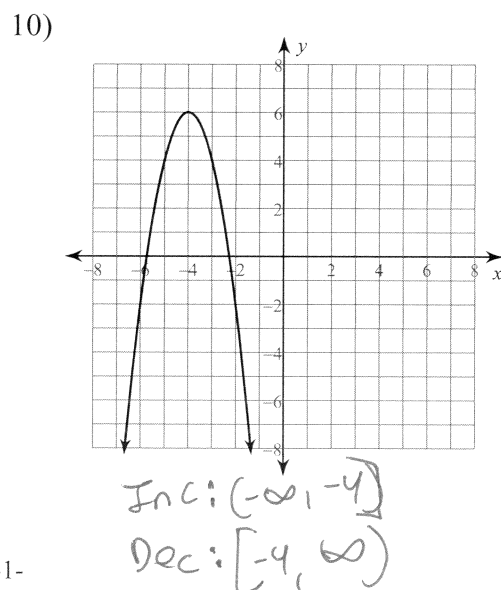
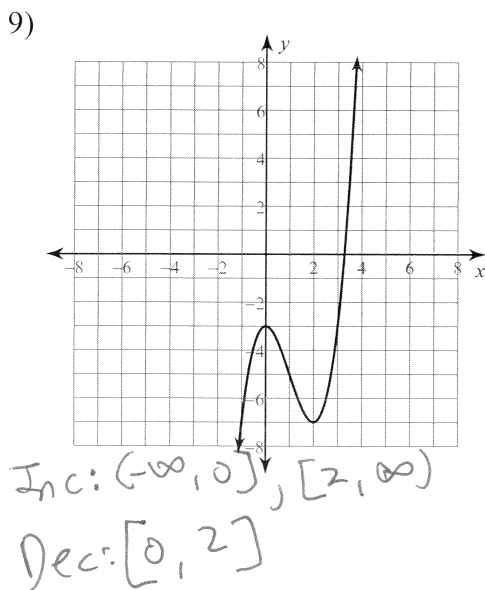
5) $w(n) = 2n + 1$; Find $w(-7)$
 $(-7) = 2(-7) + 1 = -14 + 1 = -13$

6) $p(x) = x^2 + x$; Find $p(1)$
 $p(1) = 1^2 + 1 = 1 + 1 = 2$

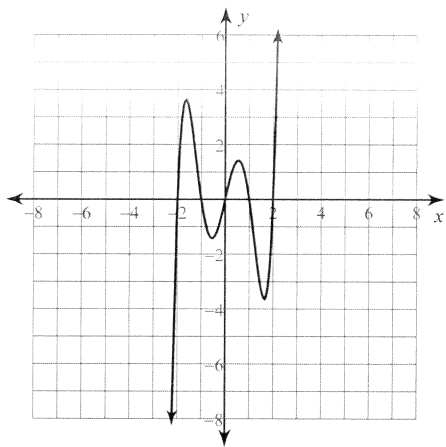
7) $h(x) = x^2 + 5x$; Find $h(x-1)$
 $h(x-1) = (x-1)^2 + 5(x-1)$
 $= (x-1)(x-1) + 5x - 5 = x^2 - x - x + 1 + 5x - 5$

~~8) $p(t) = 2t^3 - 3$; Find $p(3-x)$~~

Approximate the intervals where each function is increasing and decreasing.



11)



For the above graph...

a. Find $f(-1) = 0$

b. Find the x-intercept(s)

$(-2, 0), (-1, 0), (0, 0), (1, 0), (2, 0)$

c. Find the y-intercept

$(0, 0)$

d. Is it continuous or discrete?

continuous.

e. Is it a function?

yes.