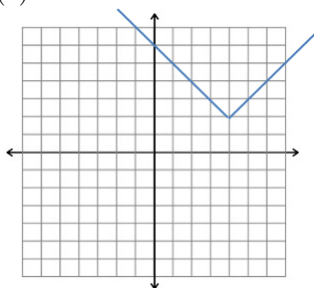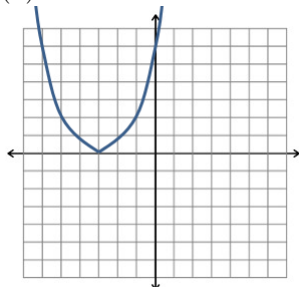# Pre-Calc AB Worksheet #50 : Answers
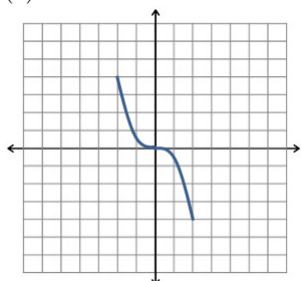
1. (a)
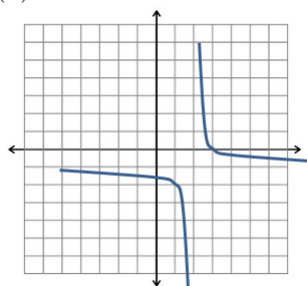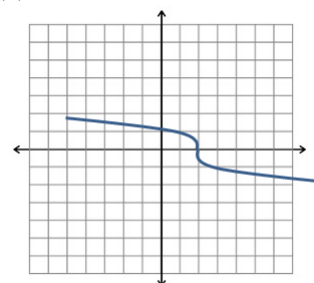

(b)

(c)

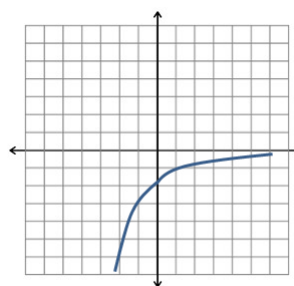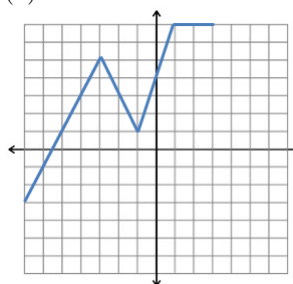

(d)

(e)

(f)

2. (a)

(b) $2 + f(-(x+2))$

(c) $\dfrac{1}{2}f(x-2)$

3. (a) $f^{-1} = \dfrac{x+7}{3}$

(b) $g^{-1} = \dfrac{2}{3x} + \dfrac{1}{3}$

(c) $h^{-1} = 2\sqrt[3]{x} + 2$

4. (a) $(-7, -1)$

(b) $(-5, 3)$

(c) $(-25, -10)$

(d) $(6, -19)$

5. (a) Domain: $[-4, 8]$ Range: $[0, 9]$

(b) Domain: $[2, 5]$ Range: $[1, 4]$

(c) Domain: $[-4, -1]$ Range: $[0, 1]$

6. (a) r is an x-intercept

(b) $-r$ is an x-intercept

(c) $-r$ is an x-intercept