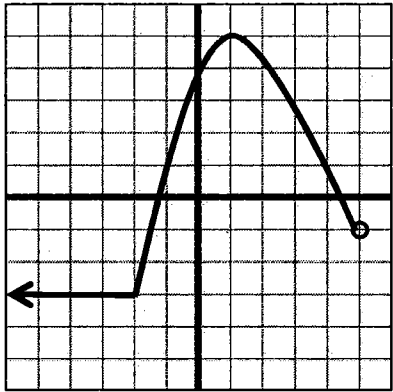


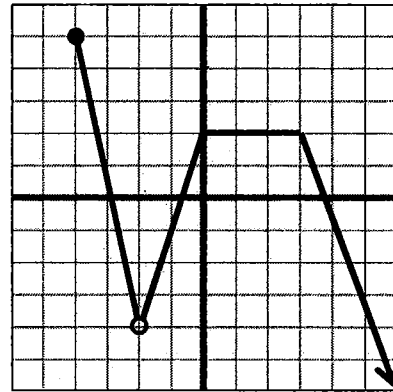
#1-#6: State the domain and range of the following functions.

1)



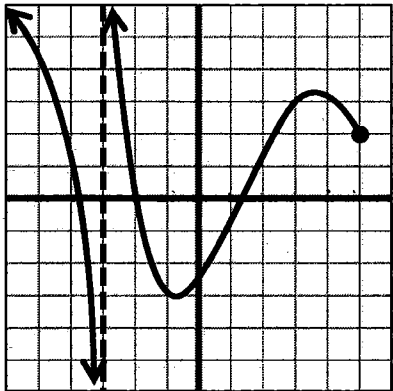
Domain: $(-\infty, 5)$
 Range: $[-3, 5]$

2)



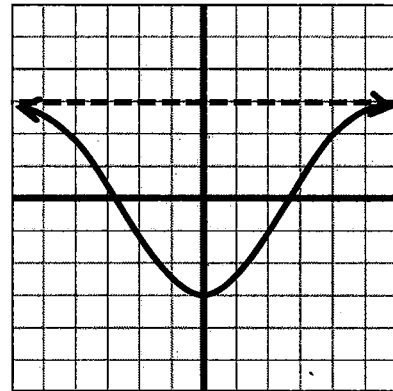
Domain: $[-4, -2) \cup (-2, +\infty)$
 Range: $(-\infty, 5]$

3)



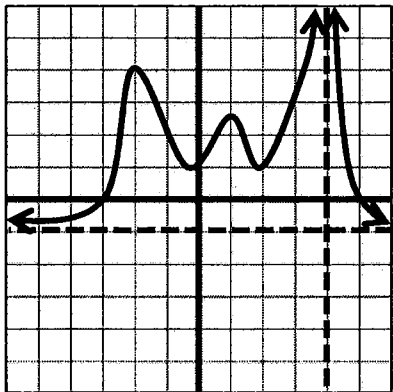
Domain: $(-\infty, -3) \cup (-3, 5]$
 Range: $(-\infty, +\infty)$

4)



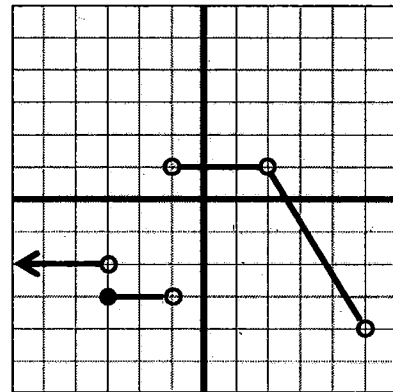
Domain: $(-\infty, +\infty)$
 Range: $[-3, 3)$

5)



Domain: $(-\infty, 4) \cup (4, +\infty)$
 Range: $(-1, +\infty)$

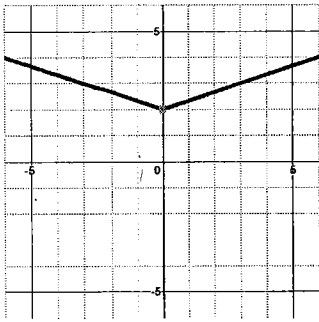
6)



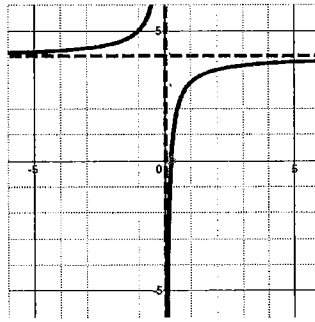
Domain: $(-\infty, -1) \cup (-1, 2) \cup (2, 5)$
 Range: $[-4, 1]$

#7-#21: Match each graph with the correct equation on the next page. You will *not* use all of the choices.

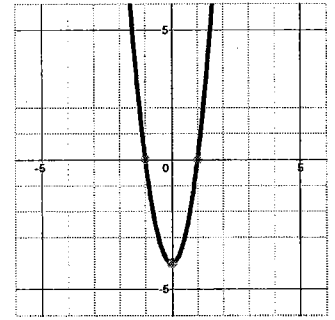
D 7)



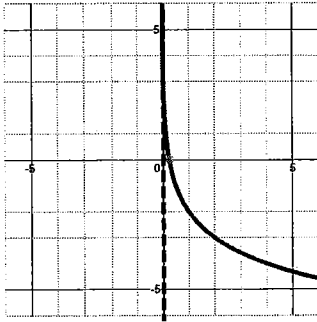
J 8)



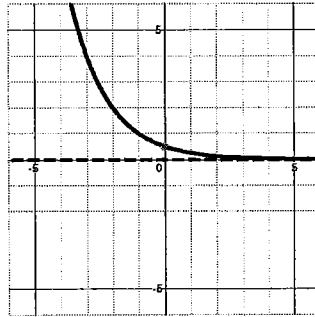
M 9)



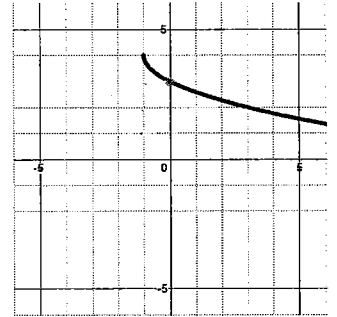
H 10)



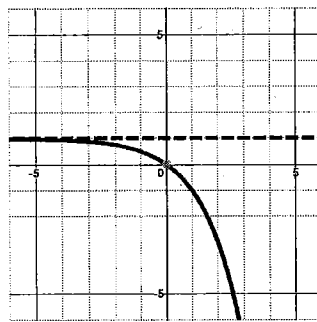
Y 11)



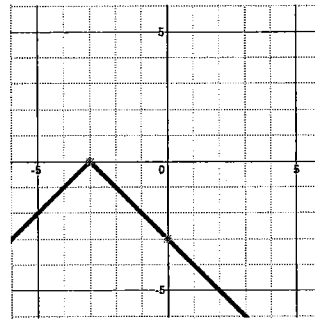
S 12)



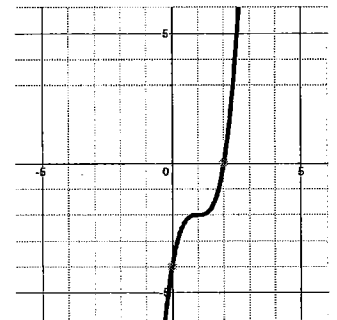
K 13)



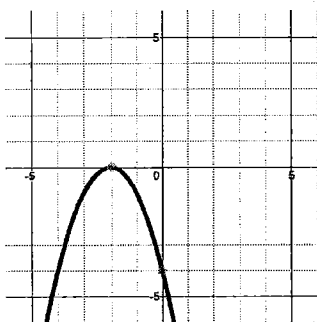
A 14)



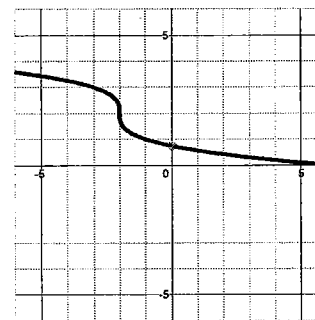
P 15)



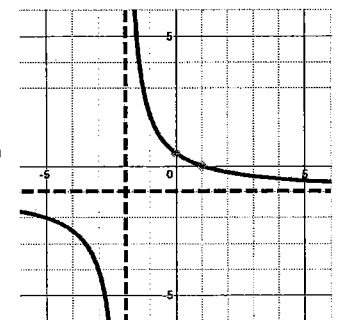
Z 16)



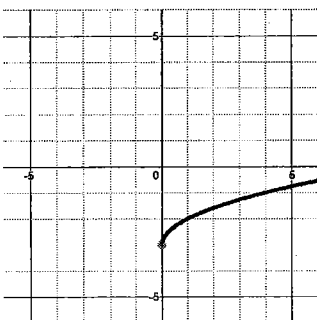
T 17)



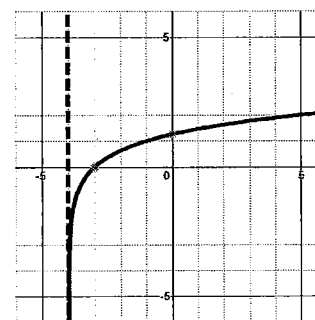
G 18)



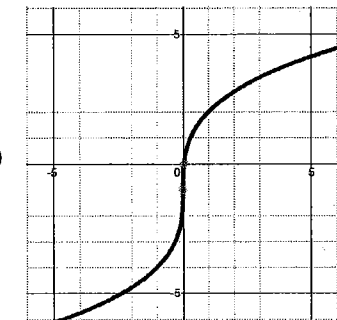
E 19)



W 20)



L 21)



$$\text{A) } y = -|x + 3|$$

$$\text{B) } y = x^2 + 4$$

$$\text{C) } y = (x - 1)^3 + 2$$

$$\text{D) } y = \frac{1}{3}|x| + 2$$

$$\text{E) } y = \sqrt{x} - 3$$

$$\text{F) } y = \sqrt[3]{x - 2} - 2$$

$$\text{G) } y = \frac{3}{x+2} - 1$$

$$\text{H) } y = \log_{1/2}(x) - 2$$

$$\text{I) } y = \ln(x - 4)$$

$$\text{J) } y = \frac{-1}{x} + 4$$

$$\text{K) } y = -2^x + 1$$

$$\text{L) } y = 3\sqrt[3]{x} - 1$$

$$\text{M) } y = 4x^2 - 4$$

$$\text{N) } y = 4^{x+2} - 3$$

$$\text{O) } y = -|x| + 3$$

$$\text{P) } y = 2(x - 1)^3 - 2$$

$$\text{Q) } y = -x^3 - 3$$

$$\text{R) } y = \sqrt{x + 3}$$

$$\text{S) } y = -\sqrt{x + 1} + 4$$

$$\text{T) } y = -\sqrt[3]{x + 2} + 2$$

$$\text{U) } y = \frac{1}{x+1} - 2$$

$$\text{V) } y = \frac{-1}{x+2} - 1$$

$$\text{W) } y = \log_3(x + 4)$$

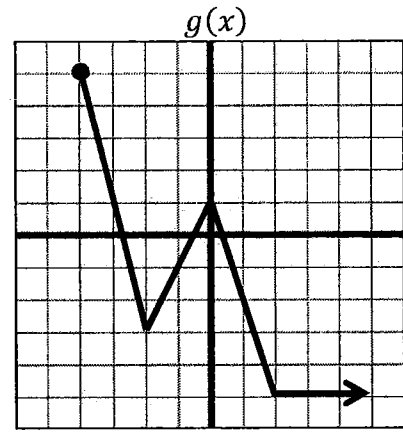
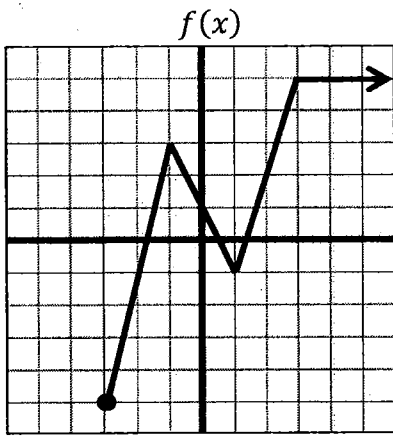
$$\text{X) } y = e^x + 1$$

$$\text{Y) } y = \left(\frac{1}{2}\right)^{x+1}$$

$$\text{Z) } y = -(x + 2)^2$$

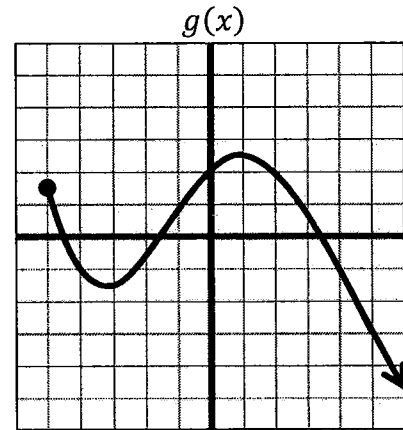
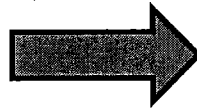
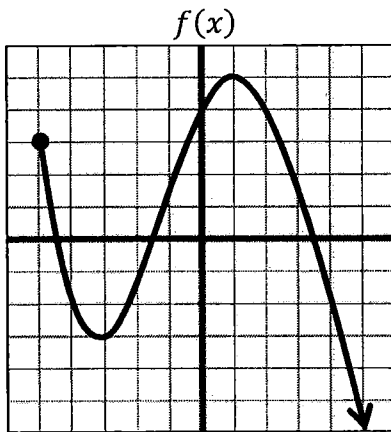
#22-#24: Match the following graph to the correct equation.

C 22)



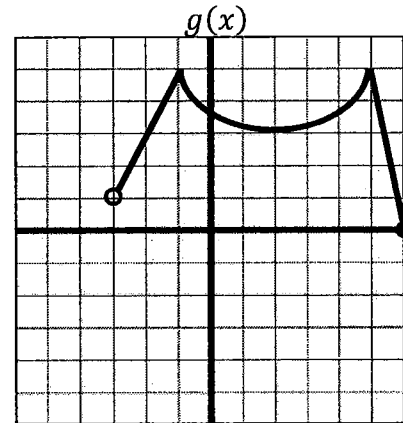
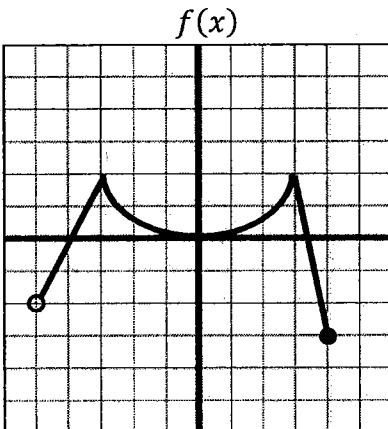
- A) $g(x) = -f(x - 1)$ B) $g(x) = f(x - 1)$ **(C)** $g(x) = -f(x + 1)$ D) $g(x) = f(x + 1)$

B 23)



- A) $g(x) = -2f(x)$ **(B)** $g(x) = \frac{1}{2}f(x)$ C) $g(x) = f(x) - 1.5$ D) $g(x) = 1.5f(x)$

B 24)



- A) $g(x) = f(x + 3) + 2$ **(B)** $g(x) = f(x - 2) + 3$ C) $g(x) = f(x - 2) - 3$ D) $g(x) = f(x - 3) + 2$