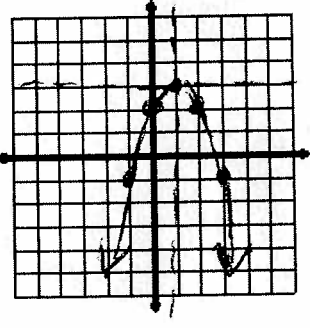
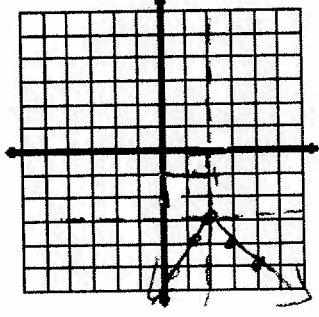


Unit 1 - Review Key

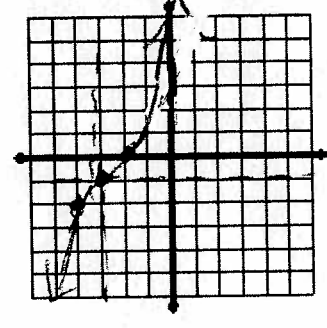
1.  $y = -(x-1)^2 + 3$



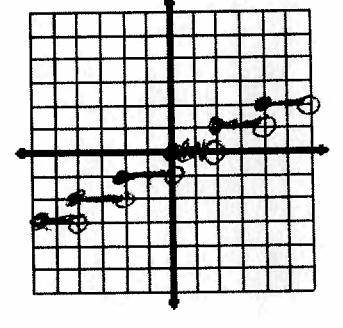
2.  $y = -|x-2| - 3$



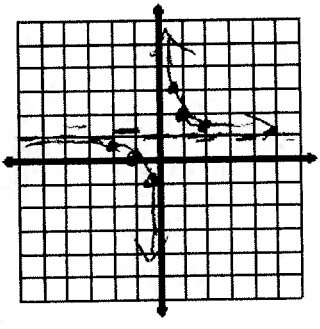
3.  $y = (x+3)^3 - 1$



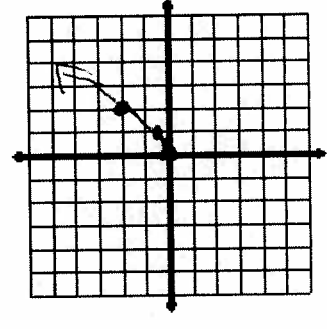
4.  $y = \lceil \frac{1}{2}x \rceil$



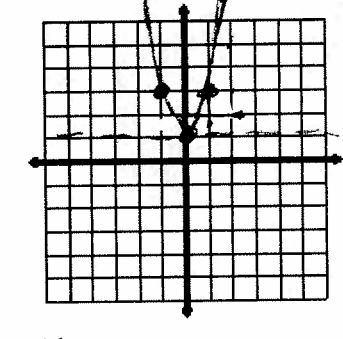
5.  $y = \frac{1}{x} + 1$



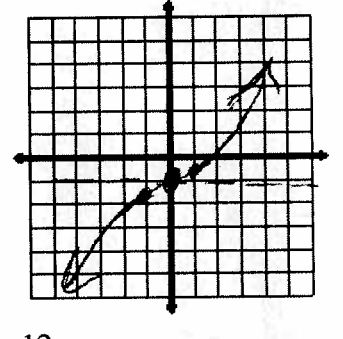
6.  $y = \sqrt{2x}$



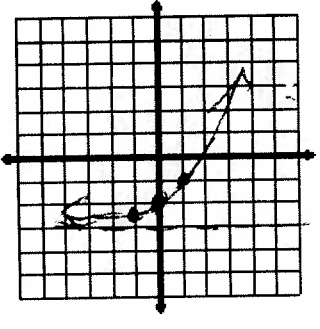
7.  $y = (2x^2) + 1$



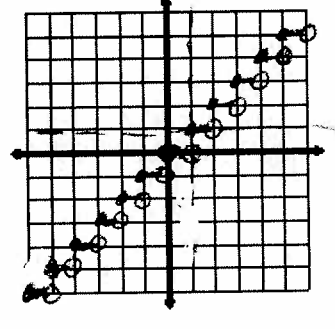
8.  $y = \frac{1}{2}x^3 - 1$



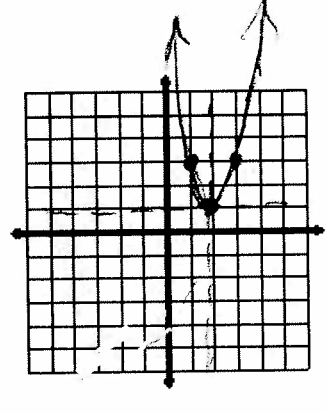
9.  $y = 2^x - 3$



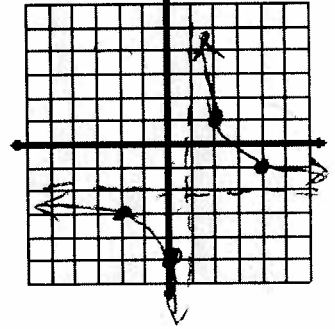
10.  $y = \lceil x-1 \rceil + 1$



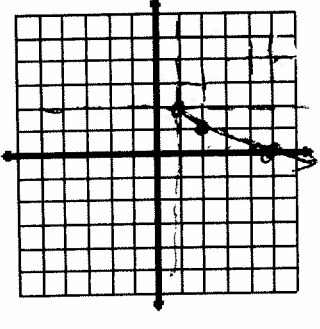
11.  $y = 2(x-2)^2 + 1$



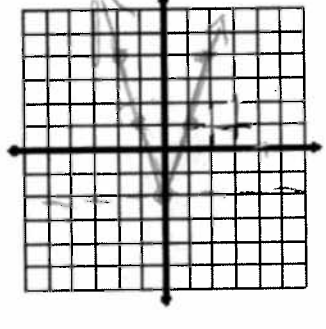
12.  $y = \frac{3}{x-1} - 2$



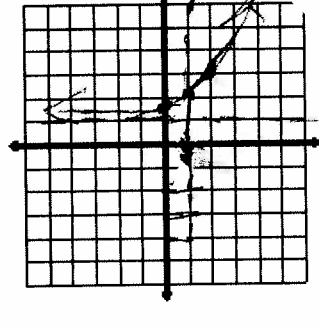
13.  $y = -\sqrt{x-1} + 2$



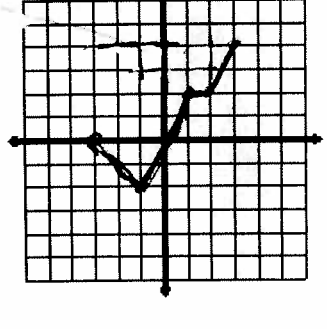
14.  $y = 3|x| - 2$



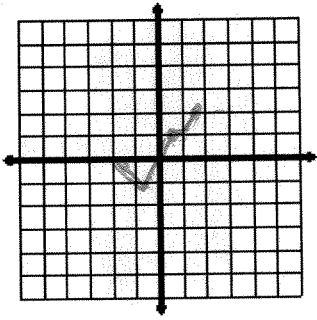
15.  $y = 2^{x-1} + 1$



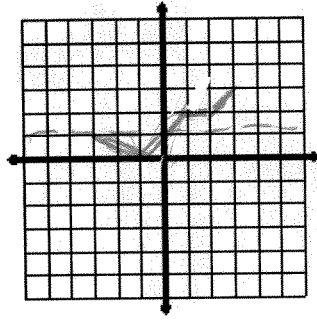
16.  $2f(x)$



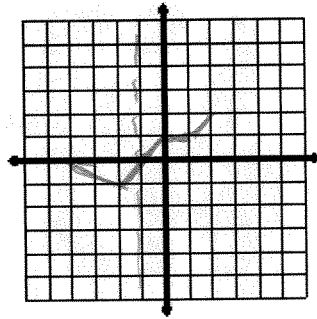
17.  $f(2x)$



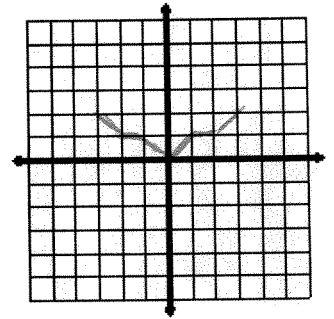
18.  $f(x)+1$



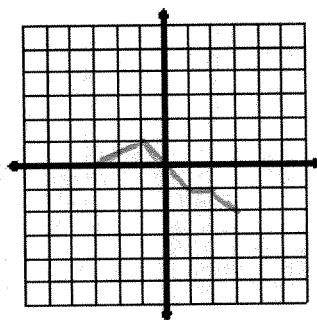
19.  $f(x+1)$



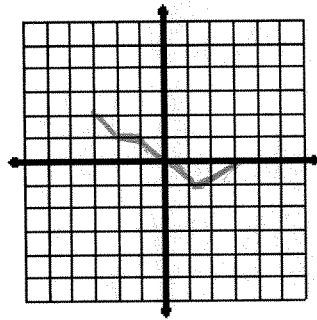
20.  $f(|x|)$



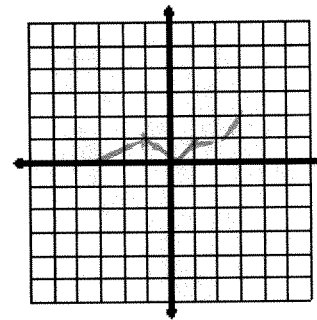
21.  $-f(x)$



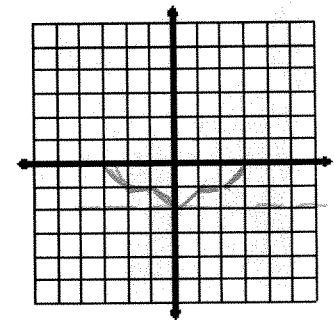
22.  $f(-x)$



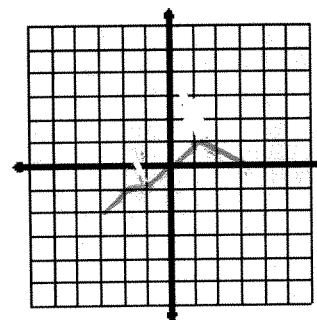
23.  $|f(x)|$



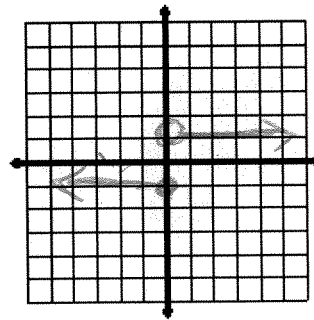
24.  $f(|x|)-2$



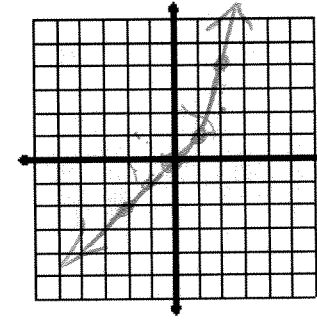
25.  $-f(-x)$



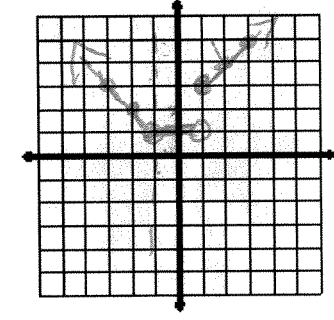
26.  $f(x) = \begin{cases} 1, & x > 0 \\ -1, & x \leq 0 \end{cases}$



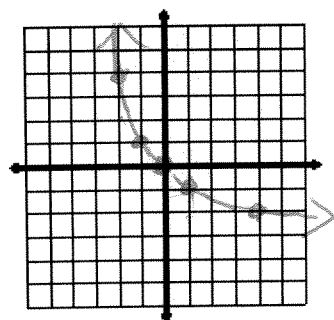
27.  $f(x) = \begin{cases} x, & x < 1 \\ x^2, & x \geq 1 \end{cases}$



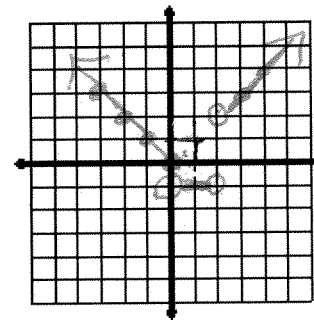
28.  $f(x) = \begin{cases} -x, & x < -1 \\ 1, & -1 \leq x < 1 \\ x+2, & x \geq 1 \end{cases}$



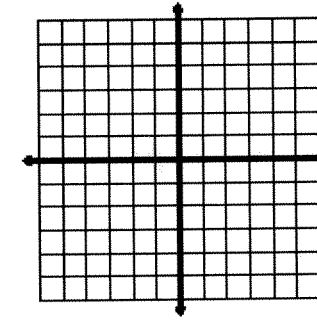
29)  $f(x) = \begin{cases} x^2, & x < 0 \\ -\sqrt{x}, & x \geq 0 \end{cases}$



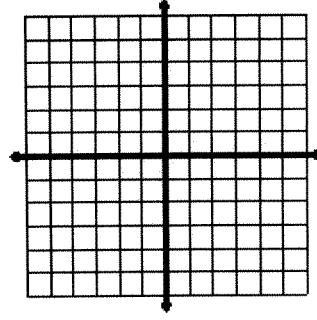
30)  $f(x) = \begin{cases} |x|, & x \leq 0 \\ -1, & 0 < x < 2 \\ x, & x \geq 2 \end{cases}$



15.

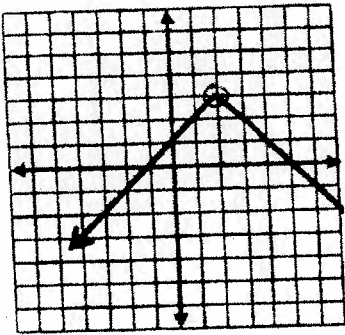


16.

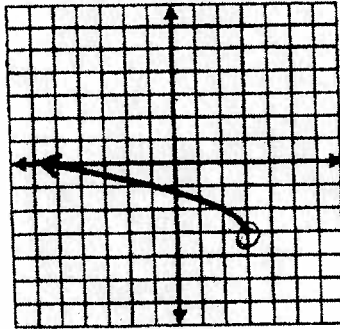


Write an equation for each graph.

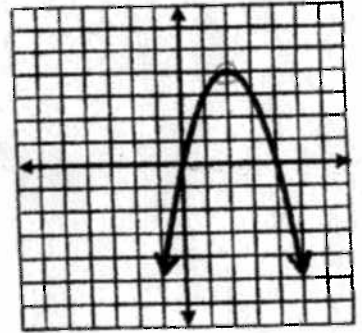
31.  $f(x) = -|x-2| + 3$



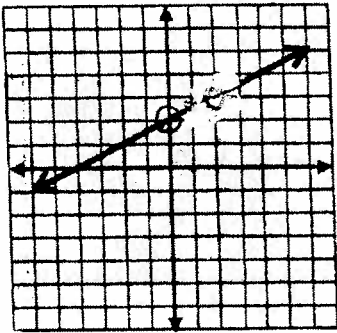
32.  $f(x) = \sqrt{-(x-3)} - 3$



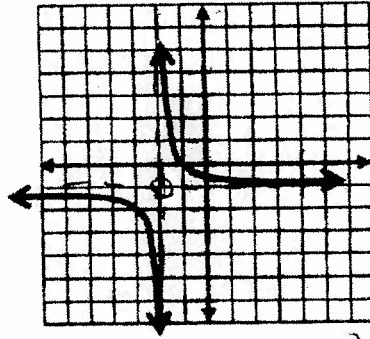
33.  $f(x) = -(x-2)^2 + 4$



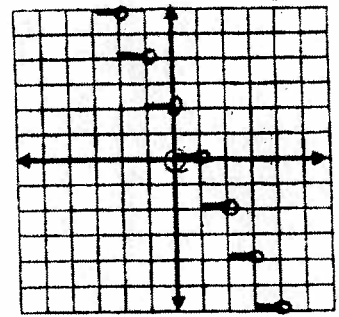
34.  $f(x) = \frac{1}{2}x + 2$



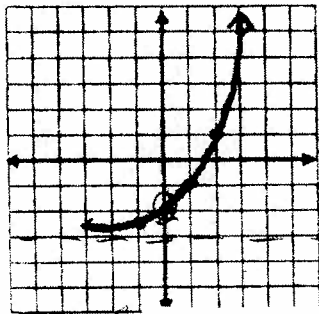
35.  $f(x) = \frac{1}{x+2} - 1$



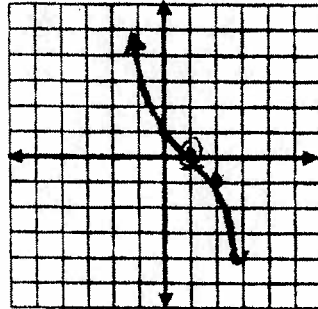
36.  $f(x) = -2[x]$



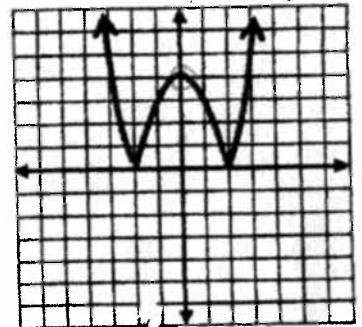
37.  $f(x) = 2^x - 3$



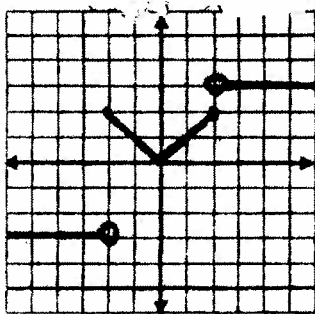
38.  $f(x) = -(x-1)^3$



39.  $f(x) = |x^2 - 4|$

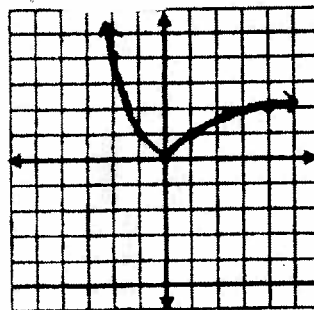


40.



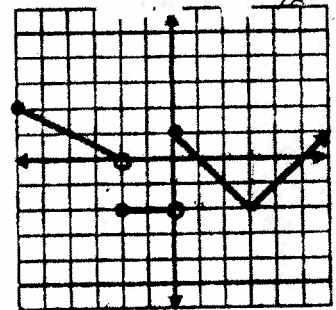
$$f(x) = \begin{cases} -3, & x < -2 \\ |x|, & -2 \leq x \leq 2 \\ 3, & x > 2 \end{cases}$$

41.



$$f(x) = \begin{cases} x^2, & x < 0 \\ \sqrt{x}, & x \geq 0 \end{cases}$$

42.



$$f(x) = \begin{cases} -\frac{1}{2}x - 1, & -6 \leq x < -2 \\ -2, & -2 \leq x < 0 \\ |x-3| - 2, & x \geq 0 \end{cases}$$