

Graph each of the following functions on graph paper.

1) $f(x) = 2(x+1)^2 - 3$

2) $f(x) = -|x-3| + 1$

3) $f(x) = -3(x+1)^3$

4) $f(x) = \sqrt[3]{x-2}$

5) $f(x) = 4\sqrt{x}$

6) $f(x) = -\left|\frac{x}{2}\right| + 3$

7) $f(x) = \sqrt{\frac{1}{2}(x-1)}$

8) $f(x) = \sqrt[3]{2x+2} - 1$

9) $f(x) = -3|2x|$

10) $f(x) = (-x+3)^3$

For questions #11-16, $f(x) = \begin{cases} x^2 - 1 & 0 < x \leq 2 \\ -2x - 1 & -2 \leq x \leq 0 \end{cases}$. Graph each of the following.

11) $f(x)$

12) $f(x+2) - 1$

13) $2f(x)$

14) $-f(-x)$

15) $f\left(\frac{x}{3}\right)$

16) $f(2x-4)$