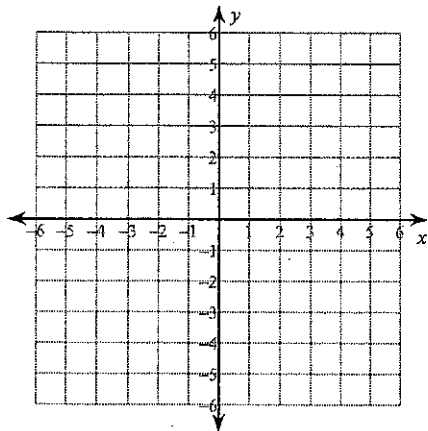


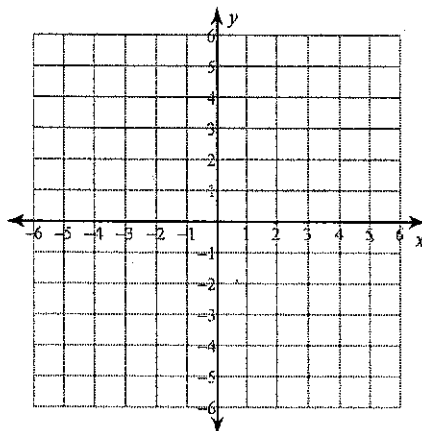
# Graphing Absolute Value Functions

Graph each equation.

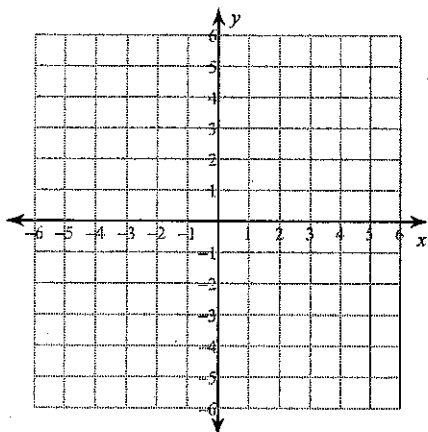
1)  $y = |x - 2| - 4$



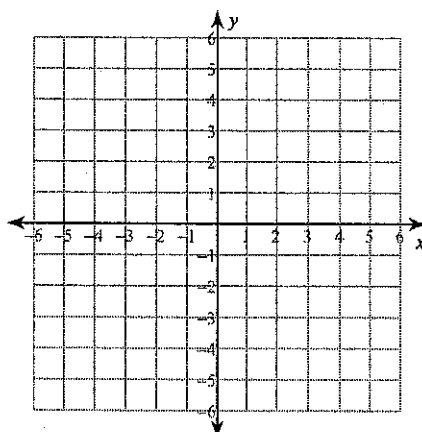
2)  $y = |x + 1|$



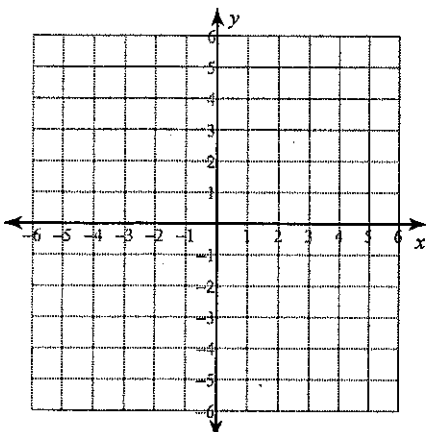
3)  $y = |x| + 1$



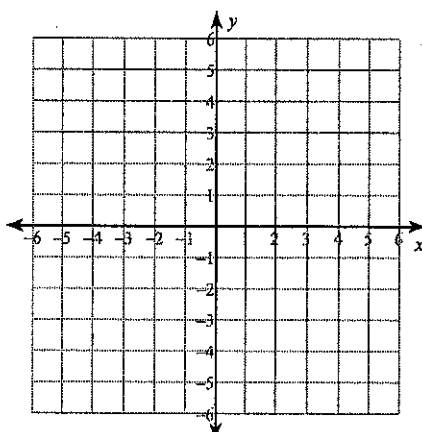
4)  $y \geq |x| + 2$



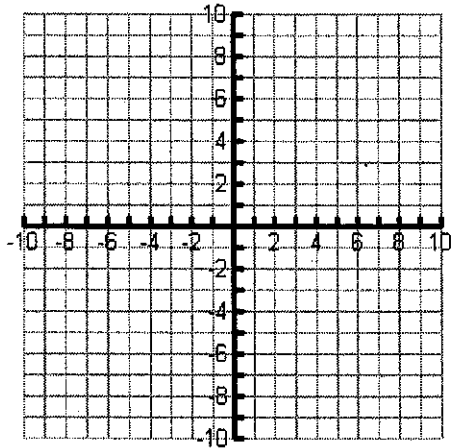
5)  $y \leq |x + 2|$



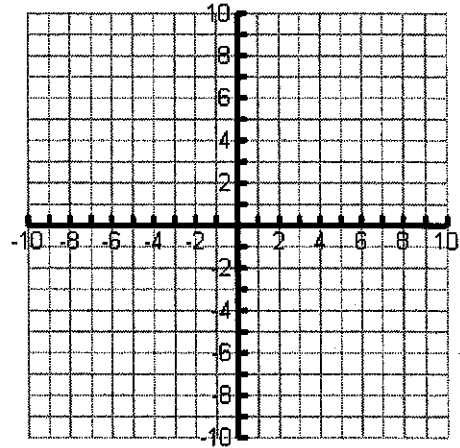
6)  $y \leq |x + 1| + 3$



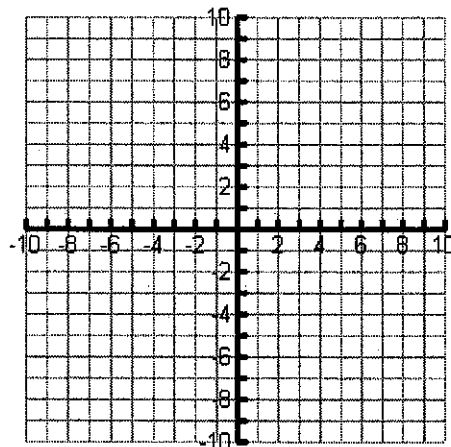
$$7. f(x) = \begin{cases} -3x - 4, & x \leq -2 \\ x + 1, & x > -2 \end{cases}$$



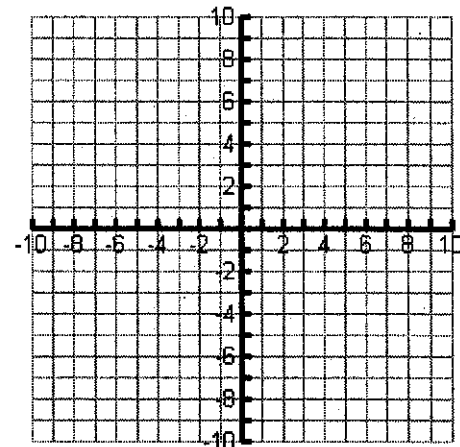
$$8. f(x) = \begin{cases} -x, & x \leq 0 \\ 2x - 2, & x > 0 \end{cases}$$



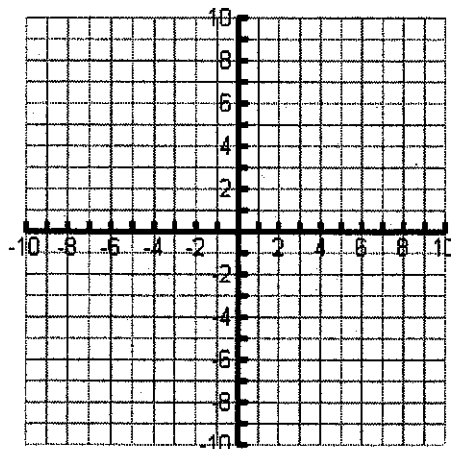
$$9. f(x) = \begin{cases} -x - 4, & x < -2 \\ -\frac{1}{2}x, & -2 \leq x \leq 2 \\ -1, & x > 2 \end{cases}$$



$$10. f(x) = \begin{cases} 3, & x < -1 \\ x + 1, & 1 \leq x \leq 4 \end{cases}$$



$$11. f(x) = \begin{cases} \frac{1}{2}x - 1, & x \neq 4 \\ 3, & x = 4 \end{cases}$$



$$12. f(x) = \begin{cases} x + 4, & -6 \leq x < 2 \\ -6, & x = 2 \\ -x + 2, & x > 2 \end{cases}$$

