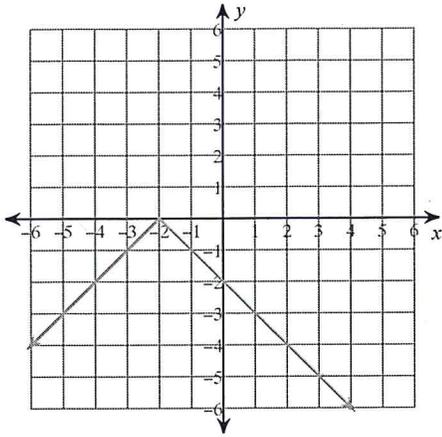


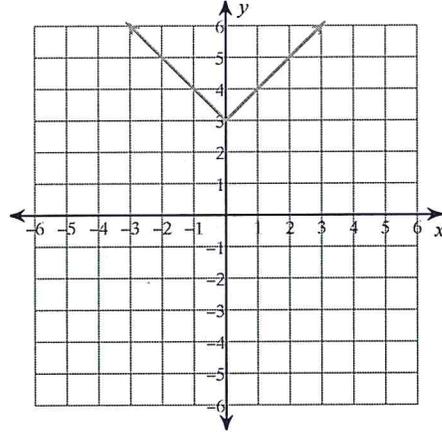
Test #3 Practice

Graph each equation.

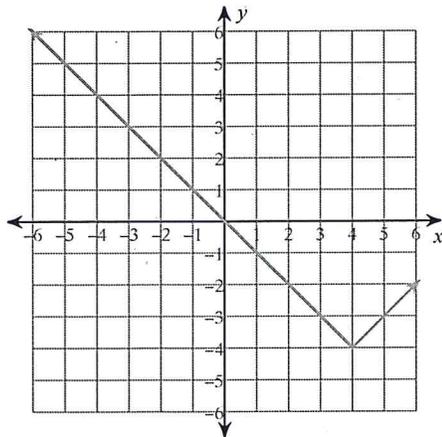
1) $y = -|x + 2|$



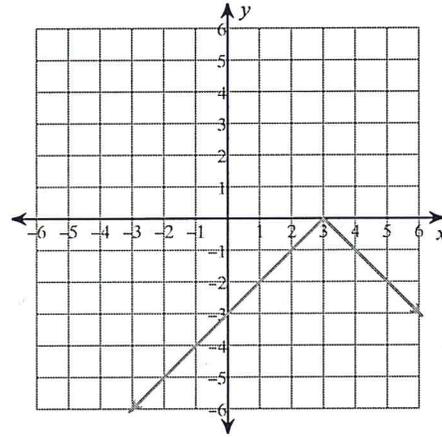
2) $y = |x| + 3$



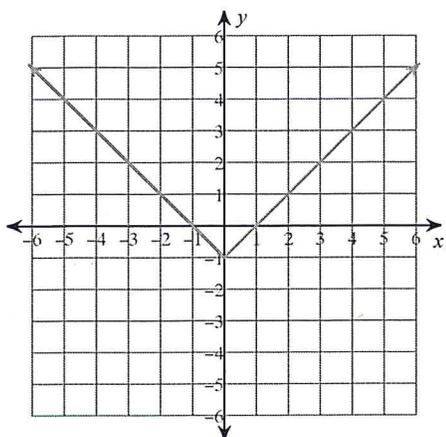
3) $y = |x - 4| - 4$



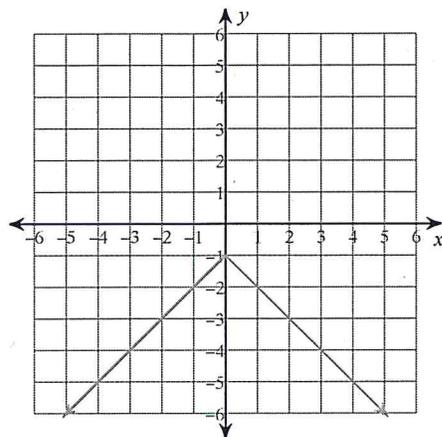
4) $y = -|x - 3|$



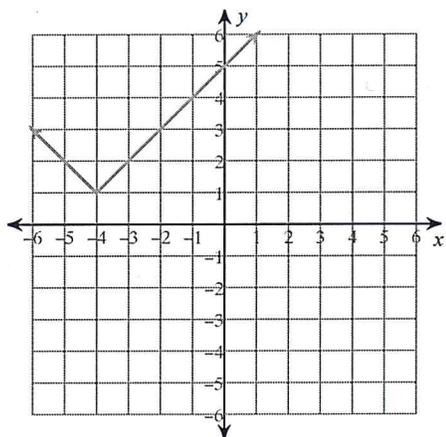
5) $y = |x| - 1$



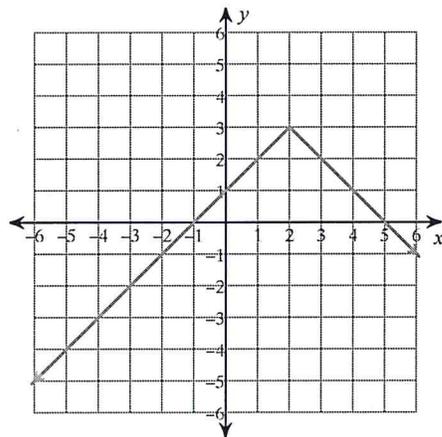
6) $y = -|x| - 1$



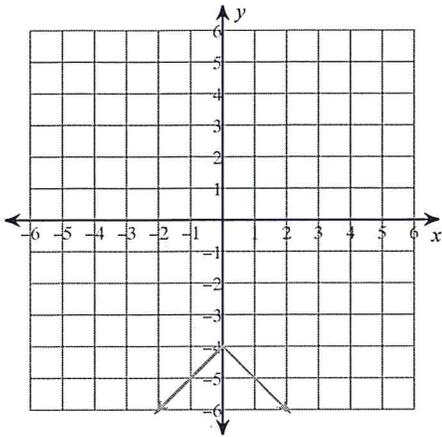
7) $y = |x + 4| + 1$



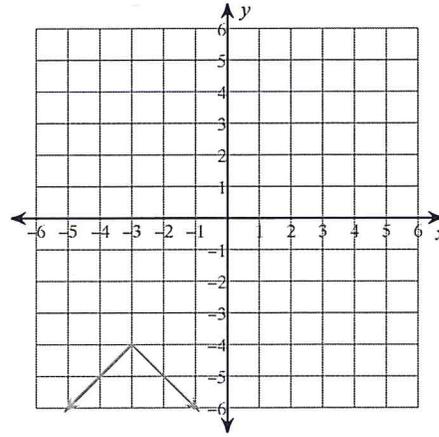
8) $y = -|x - 2| + 3$



$$9) y = -|x| - 4$$



$$10) y = -|x + 3| - 4$$



Solve each equation.

$$11) \frac{|p + 4|}{4} = 4$$

$$\{12, -20\}$$

$$13) |9 - 10b| - 10 = -1 \quad \left\{0, \frac{9}{5}\right\}$$

$$15) |6r + 3| - 7 = -4$$

$$\{0, -1\}$$

$$17) |-2v - 3| + 4 = 5$$

$$\{-2, -1\}$$

$$19) \frac{|5 + 7x|}{8} = 5 \quad \left\{5, -\frac{45}{7}\right\}$$

$$21) -5|-6b - 1| - 6 = -61 \quad \left\{-2, \frac{5}{3}\right\}$$

$$23) -2|2a + 7| - 4 = -14$$

$$\{-1, -6\}$$

$$25) 10|4k - 2| + 6 = 26$$

$$\{1, 0\}$$

$$12) |10x - 4| + 10 = 66 \quad \left\{6, -\frac{26}{5}\right\}$$

$$14) |x - 8| + 2 = 15$$

$$\{21, -5\}$$

$$16) \frac{|4p - 4|}{3} = -3$$

No solution.

$$18) \frac{|1 - 10x|}{4} = 2 \quad \left\{-\frac{7}{10}, \frac{9}{10}\right\}$$

$$20) 8 + |2b - 9| = -23$$

No solution.

$$22) 8|3m - 7| - 9 = 7 \quad \left\{3, \frac{5}{3}\right\}$$

$$24) 10 - |9v - 3| = -50 \quad \left\{7, -\frac{19}{3}\right\}$$

$$26) 8 - 9|-8 - 5k| = -10 \quad \left\{-2, -\frac{6}{5}\right\}$$

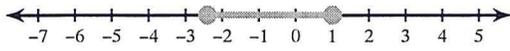
$$27) -3|x+5| + 6 = -9$$

$$\{0, -10\}$$

$$29) 3|-3b-1| - 9 = -9 \quad \left\{-\frac{1}{3}\right\}$$

Solve each inequality and graph its solution.

$$31) |10n+7| + 7 \leq 24$$



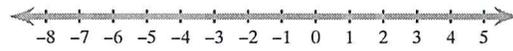
$$-\frac{12}{5} \leq n \leq 1$$

$$28) 8|7r-4| + 8 = 96 \quad \left\{\frac{15}{7}, -1\right\}$$

$$30) 6+2|3x-3| = 48$$

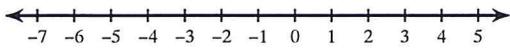
$$\{8, -6\}$$

$$32) 6 - |6-4n| \leq 28$$



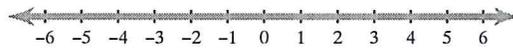
{ All real numbers. }

$$33) \frac{|4x+7|}{7} \leq -4$$



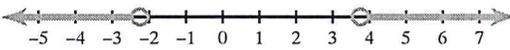
No solution.

$$34) \frac{|-9v+5|}{3} > -5$$



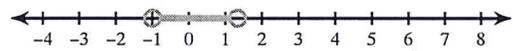
{ All real numbers. }

$$35) \frac{|-3+4b|}{3} > 4$$



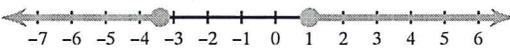
$$b > \frac{15}{4} \text{ or } b < -\frac{9}{4}$$

$$36) 6|1-6x| < 42$$



$$-1 < x < \frac{4}{3}$$

$$37) -4|5x+6| \leq -44$$



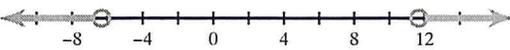
$$x \geq 1 \text{ or } x \leq -\frac{17}{5}$$

$$38) -6 + |2m+10| < 4$$



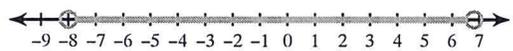
$$-10 < m < 0$$

$$39) \frac{|-3n+8|}{9} > 3$$



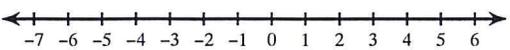
$$n < -\frac{19}{3} \text{ or } n > \frac{35}{3}$$

$$40) -1 - |3+5n| > -38$$



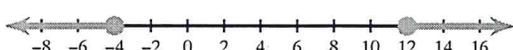
$$-8 < n < \frac{34}{5}$$

$$41) 7|9x+3| < -42$$



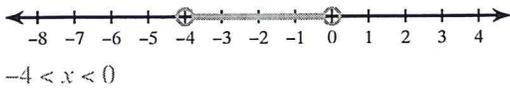
No solution.

$$42) \frac{|k-4|}{8} \geq 1$$

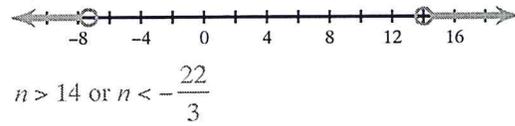


$$k \geq 12 \text{ or } k \leq -4$$

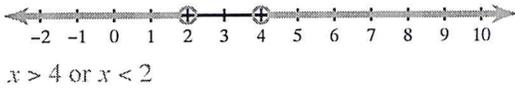
43) $7|2 + x| < 14$



44) $\frac{|3n - 10|}{8} > 4$

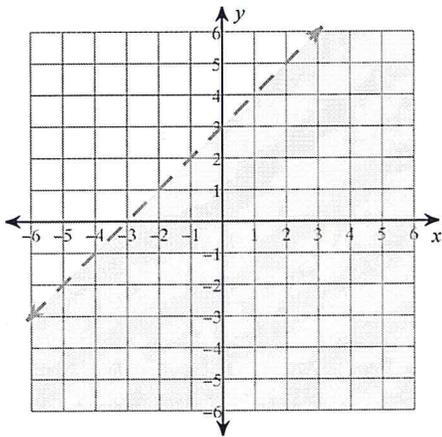


45) $7|-3 + x| > 7$

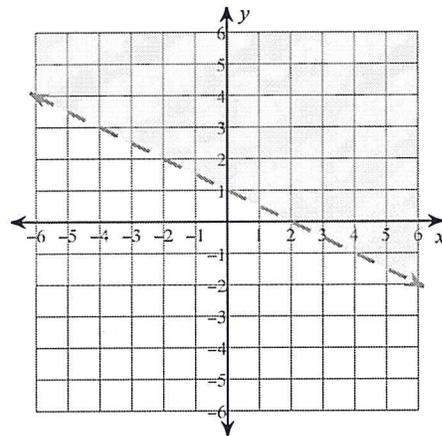


Sketch the graph of each linear inequality.

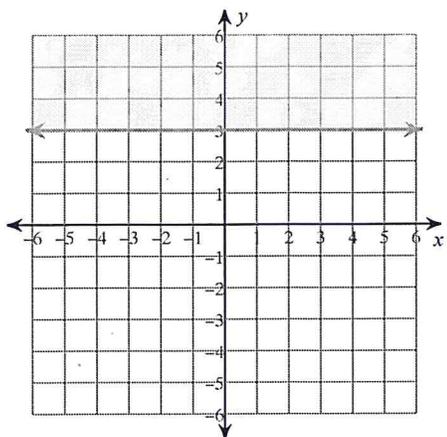
46) $x - y > -3$



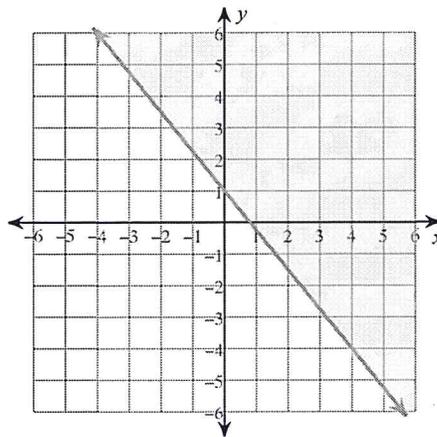
47) $x + 2y > 2$



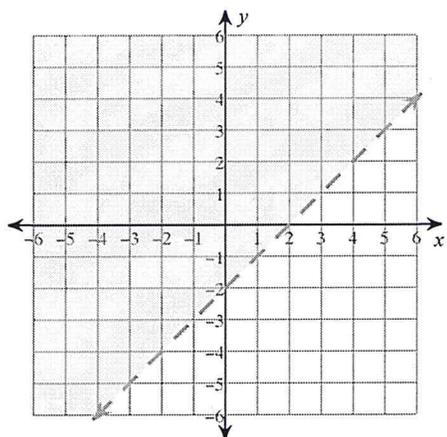
48) $y \geq 3$



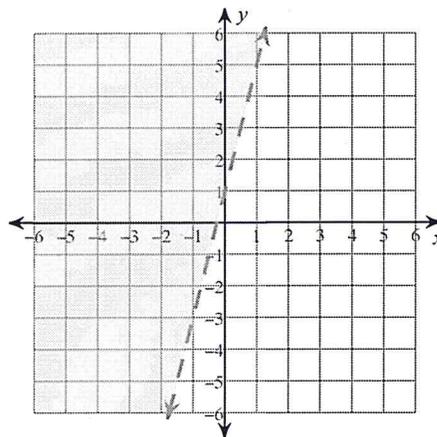
49) $5x + 4y \geq 4$



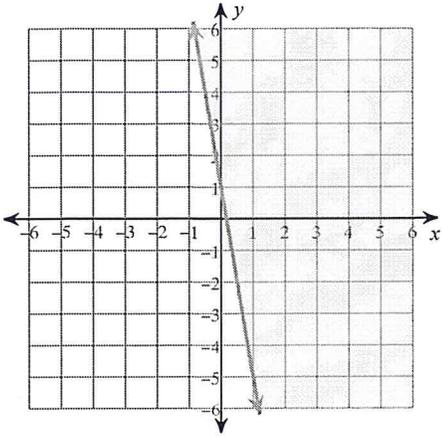
50) $x - y < 2$



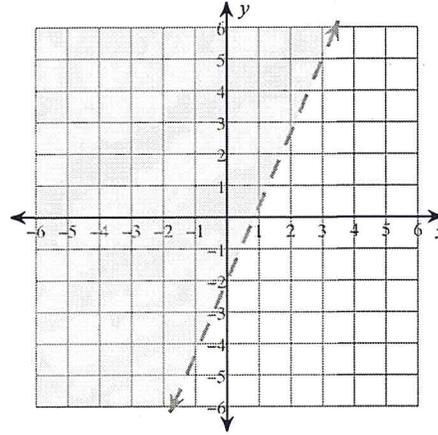
51) $y > 4x + 1$



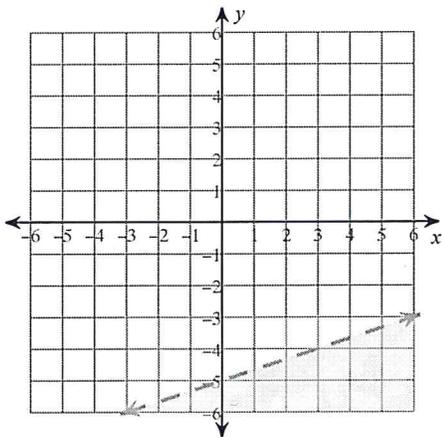
$$52) y \geq -6x + 1$$



$$53) y > \frac{7}{3}x - 2$$



$$54) y < \frac{1}{3}x - 5$$



$$55) y \leq -\frac{3}{5}x + 5$$

