

Absolute Value Review

Solve each equation.

1) $4|5x - 2| + 7 = 119$

2) $10|8 - 2v| + 5 = 105$

3) $8|8 - 3n| - 10 = 70$

4) $2|4a + 10| - 10 = 74$

5) $1 - 8|7 + 10k| = -23$

6) $7 - 6|3x + 10| = -107$

Answers

Solve each equation.

1) $4|5x - 2| + 7 = 119$

$$\left\{6, -\frac{26}{5}\right\}$$

2) $10|8 - 2v| + 5 = 105$

$$\{-1, 9\}$$

3) $8|8 - 3n| - 10 = 70$

$$\left\{-\frac{2}{3}, 6\right\}$$

4) $2|4a + 10| - 10 = 74$

$$\{8, -13\}$$

5) $1 - 8|7 + 10k| = -23$

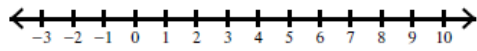
$$\left\{-\frac{2}{5}, -1\right\}$$

6) $7 - 6|3x + 10| = -107$

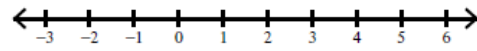
$$\left\{3, -\frac{29}{3}\right\}$$

Solve each inequality and graph its solution.

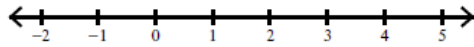
7) $9 + 9|-2x + 9| \geq 54$



8) $4 - 10|-6n + 9| > -86$



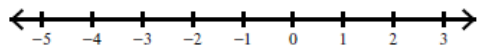
9) $8|-2 + 8a| - 8 \leq 104$



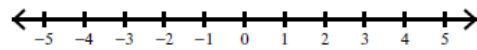
10) $-6|6k - 4| + 5 \geq -7$



11) $6 - 4|9 + 8x| > -86$



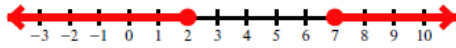
12) $6|5x + 7| - 2 \leq 100$



Answers

Solve each inequality and graph its solution.

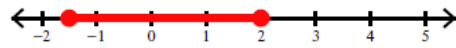
7) $9 + 9|-2x + 9| \geq 54$



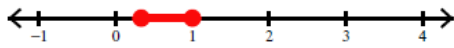
8) $4 - 10|-6n + 9| > -86$



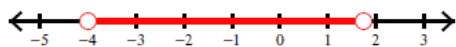
9) $8|-2 + 8a| - 8 \leq 104$



10) $-6|6k - 4| + 5 \geq -7$



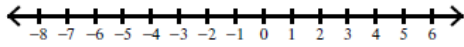
11) $6 - 4|9 + 8x| > -86$



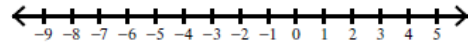
12) $6|5x + 7| - 2 \leq 100$



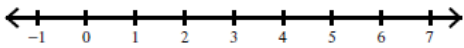
13) $4|2 + 7n| + 4 > 80$



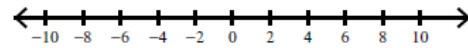
14) $8 + 2|-1 - k| \geq 14$



15) $9|7 - 2x| + 6 \leq 33$

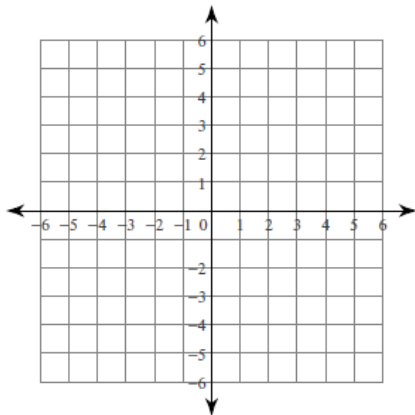


16) $3 + 4|3p - 1| > 79$

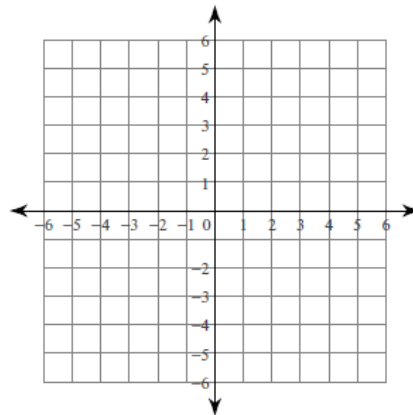


Graph each equation.

17) $y = |x| - 4$

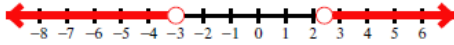


18) $y = |x - 3| + 3$

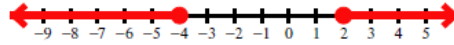


Answers

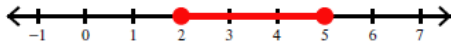
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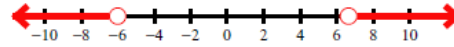
14) $8 + 2|-1 - k| \geq 14$



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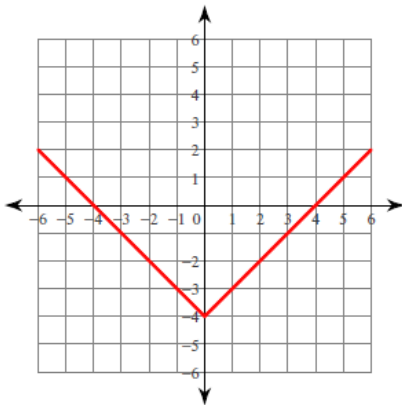


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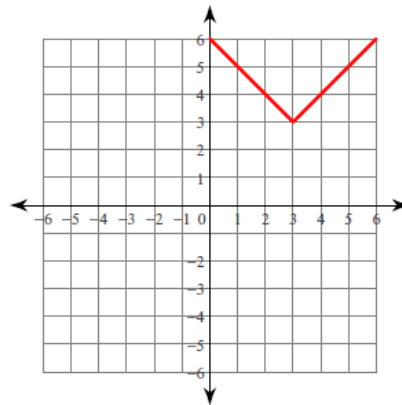


Graph each equation.

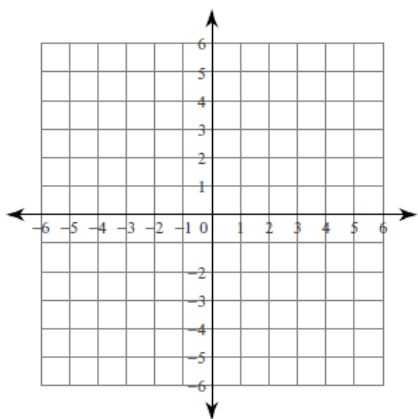
17) $y = |x| - 4$



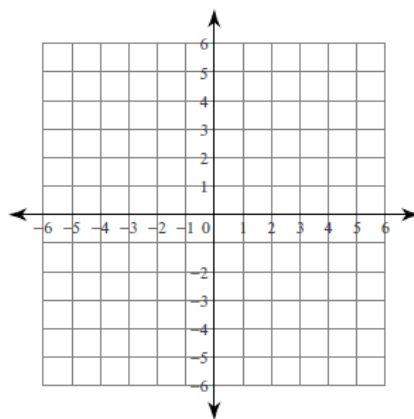
18) $y = |x - 3| + 3$



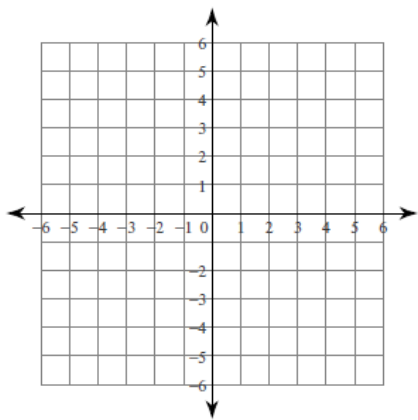
19) $y = -|x - 3| - 2$



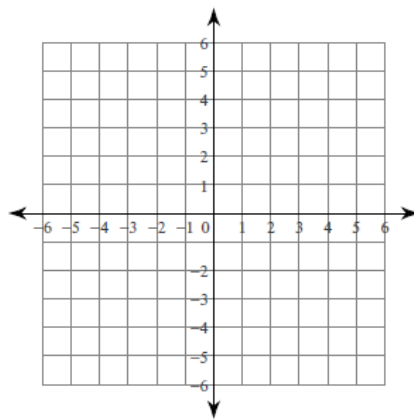
20) $y = |x - 3|$



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

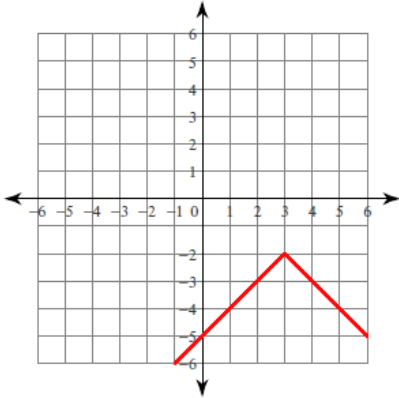


22) $y = -|x| - 3$

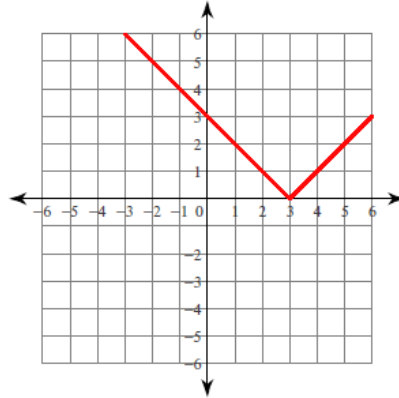


Answers

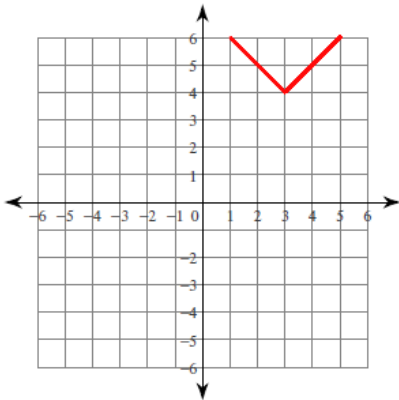
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