

Absolute Value Workday (Review for PC)

Solve each equation.

1) $-7|10r| = -70$

2) $|9 + 4x| - 6 = 11$

3) $5|-9n + 9| + 7 = 52$

4) $-8 + 4|8a - 8| = 56$

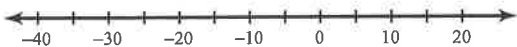
Solve each inequality.

5) $-3 + |-10v - 3| \leq 54$

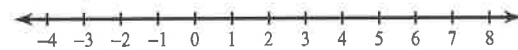
6) $8|x - 1| - 3 < 5$

Solve each inequality and graph its solution.

7) $\frac{|x + 8|}{7} > 4$

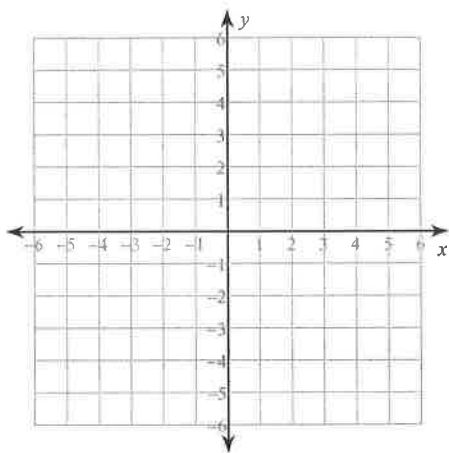


8) $-5|6n - 1| + 1 > -94$

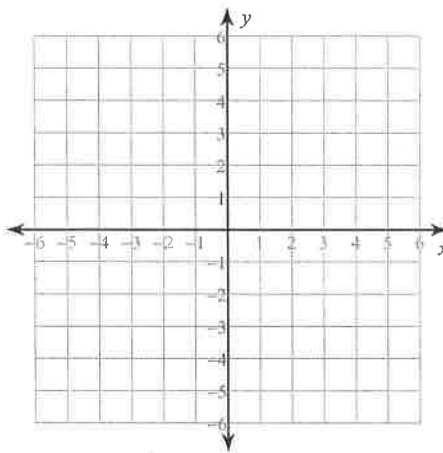


Graph each equation.

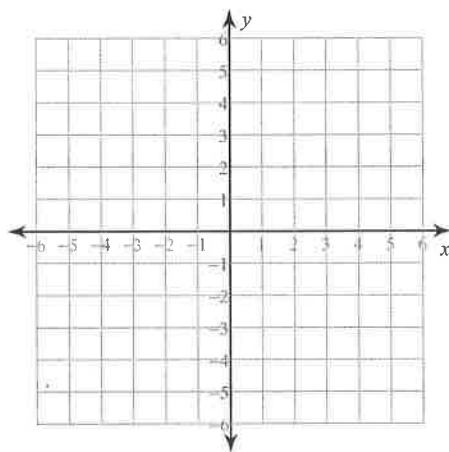
9) $y = |x - 2| - 2$



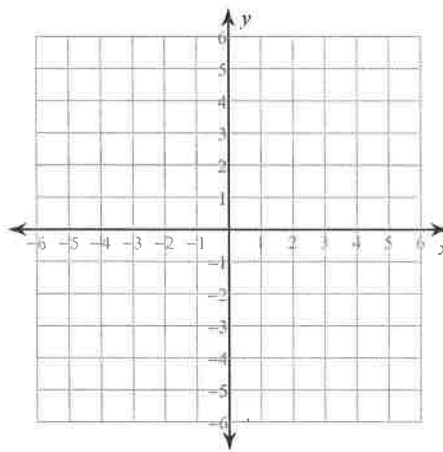
10) $y = |x - 1| - 3$



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



12) $y = -2|x - 4| - 3$



13) Describe each transformation:

a) $y = 3|x + 2| - 5$

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

c) $y = \frac{1}{2} \cdot |x - 7| + 10$

14) Write an absolute value function for each transformation:

a) opening down, narrow, vertex at $(4, -5)$

b) opening up, compressed by a factor of $\frac{1}{2}$,
vertex at $(-7, 2)$

c) opening down, normal, vertex shifted left 3
and up 9