Homework

Solve the following absolute value equations and inequalities. Graph the solutions to the inequalities.

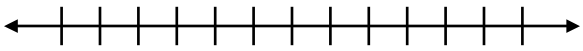
1. $3|x + 2| = 15$

Check:

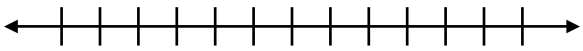
2. $|2x| + 5 = 9$

Check:

3. $|x - 2| \leq 6$



4. $|3x| > 9$



Homework

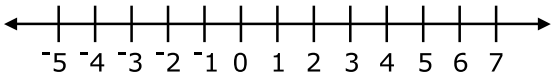
5. $|-2x + 3| = 1$

Check:

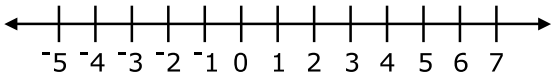
6. $|x + 1| + 5 = 3$

Check:

7. $-2|x + 3| > 4$



8. $|x + 1| - 6 \leq -2$

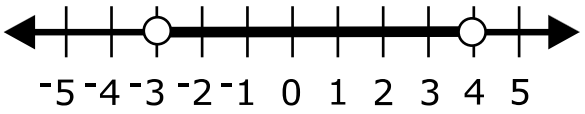


Homework

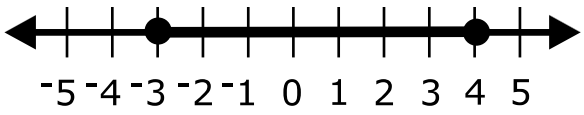
9. $\left|\frac{x}{2} + 1\right| = 4$

10. Which graph represents the solution set of $|2x - 1| < 7$?

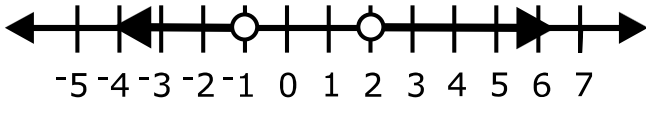
A.



B.



C.



D.