

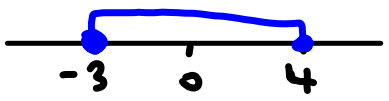
Name: Key Show work needed to justify your answer. Date: _____

HW # 36: Algebra 1 - Standard 22 - Solve Absolute Value Inequalities "GOLA" 5 points

Solve each inequality. Then graph the solution set.

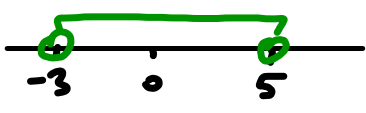
3. $|2c - 1| \leq 7$ "LA"
 $2c - 1 \leq 7$ and $2c - 1 \geq -7$
 $\frac{2c}{2} \leq \frac{8}{2}$ and $\frac{2c}{2} \geq \frac{-6}{2}$

$c \leq 4$ and $c \geq -3$



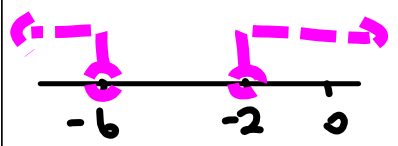
4. $|3h - 3| < 12$ "LA"
 $3h - 3 < 12$ and $3h - 3 > -12$
 $\frac{3h}{3} < \frac{15}{3}$ and $\frac{3h}{3} > \frac{-9}{3}$

$h < 5$ and $h > -3$



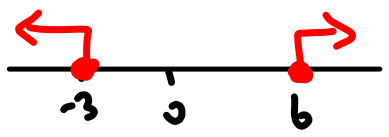
5. $|m + 4| < -2$ "LA"
 $m + 4 < -2$ and $m + 4 > 2$
 $m < -6$ and $m > -2$
 No overlap

\therefore No solution.



9. $|2h - 3| \geq 9$ "GO"
 $2h - 3 \geq 9$ or $2h - 3 \leq -9$
 $\frac{2h}{2} \geq \frac{12}{2}$ or $\frac{2h}{2} \leq \frac{-6}{2}$

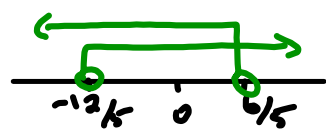
$h \geq 6$ or $h \leq -3$



11. $|5v + 3| > -9$ "GO"
 $5v + 3 > -9$ or $5v + 3 < 9$
 $\frac{5v}{5} > \frac{-12}{5}$ or $\frac{5v}{5} < \frac{6}{5}$

$v > -\frac{12}{5}$ or $v < \frac{6}{5}$

All Real #'s



15. $|\frac{3h + 1}{2}| < 8$ "LA"
 $\frac{3h + 1}{2} < 8$ and $\frac{3h + 1}{2} > -8$
 $3h + 1 < 16$ and $3h + 1 > -16$
 $\frac{3h}{3} < \frac{15}{3}$ and $\frac{3h}{3} > \frac{-17}{3}$

$h < 5$ and $h > -\frac{17}{3}$

