

Q1 HW3

Date _____ Period _____

Solve each compound inequality and graph its solution on a number line.

1) $7v - 6 < 1$ and $1 - 5v \leq 1$

2) $-9 - 10a \leq -109$ or $10 + 7a \leq 24$

3) $6x - 8 \leq 28$ and $-10x - 7 \leq 53$

4) $3n - 5 > -20$ and $8 - 3n \geq 8$

5) $5x - 3 < -53$ or $-2x + 5 \leq -9$

6) $-8k - 9 > -17$ or $9k + 1 \geq 19$

Solve each inequality and graph its solution on a number line.

7) $|6 + 10p| \geq 14$

8) $|5x + 2| \geq 22$

9) $|4 + m| \leq 11$

10) $|9n + 1| < 10$

11) $|8x - 9| - 6 \geq 59$

12) $-9|-7 - 9n| \leq -18$

Solve each equation.

13) $10|x + 1| = 10$

14) $4|8r + 1| = 36$

Evaluate each function.

15) $g(x) = 3x + 4$; Find $g(-7)$

16) $k(a) = -a^2 - 3a$; Find $k(-2)$

17) $h(n) = n^2 - 4$; Find $h(-3n)$

18) $h(x) = 3x$; Find $h(-4x)$