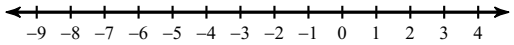
AFM UNIT 2 - HW 2 Name_____

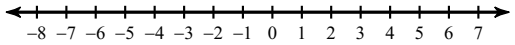
Abs Value Inequalities, Domain and Range

Solve each inequality and graph its solution. Write your answer in interval notation.

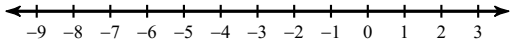
1) $|r + 3| \geq 3$



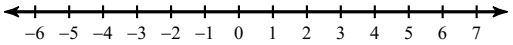
2) $|n - 6| \geq -4$



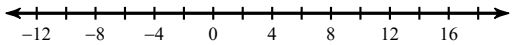
3) $|3 - 8x| \geq 3$



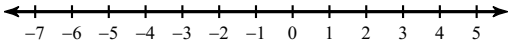
4) $|4n - 7| < 19$



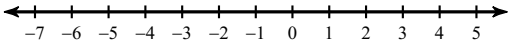
5) $|7 - 2x| > 23$



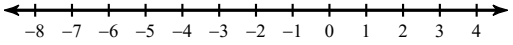
6) $|-9 - 6x| \leq 15$



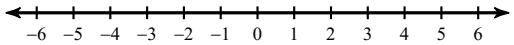
7) $-2|-6k - 8| > -52$



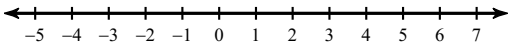
8) $|-10 + 6p| + 4 < -78$



9) $-7 - |-1 - k| \leq -9$



10) $|7a - 1| + 2 < 22$

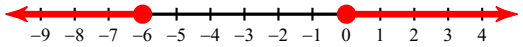


AFM UNIT 2 - HW 2 Name_____

Abs Value Inequalities, Domain and Range

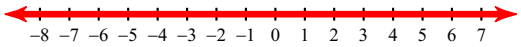
Solve each inequality and graph its solution. Write your answer in interval notation.

1) $|r + 3| \geq 3$



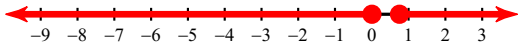
$r \geq 0$ or $r \leq -6$

2) $|n - 6| \geq -4$



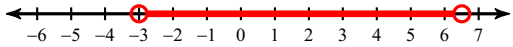
{ All real numbers. }

3) $|3 - 8x| \geq 3$



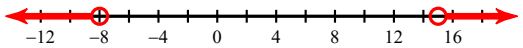
$x \leq 0$ or $x \geq \frac{3}{4}$

4) $|4n - 7| < 19$



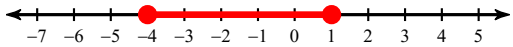
$-3 < n < \frac{13}{2}$

5) $|7 - 2x| > 23$



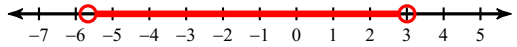
$x < -8$ or $x > 15$

6) $|-9 - 6x| \leq 15$



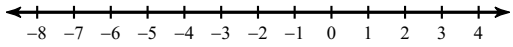
$-4 \leq x \leq 1$

7) $-2|-6k - 8| > -52$



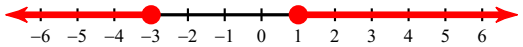
$-\frac{17}{3} < k < 3$

8) $|-10 + 6p| + 4 < -78$



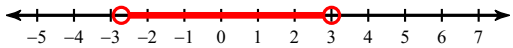
No solution.

9) $-7 - |-1 - k| \leq -9$



$k \leq -3$ or $k \geq 1$

10) $|7a - 1| + 2 < 22$



$-\frac{19}{7} < a < 3$