

Today's Plan:

Learning Target (standard): I will solve combined inequalities. I will write their solutions as sets and intervals. I will graph the solutions on a number line.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, and take a quiz.

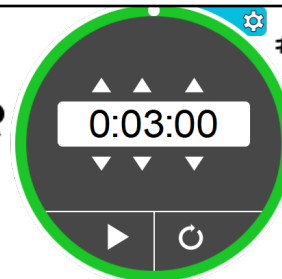
Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, and provide quiz problems.

Assessment: Board work, homework check and quiz

Differentiation: Students will work at the board, go over and correct homework at their seats, actively engage in quiz problems.

NAME _____

BELL RINGER



#84

1.) Find the product $-4w(w - 3)$.

$$-4w^2 + 12w$$

2.) Evaluate $-3x^3 - 2x^2 + 7$ when $x = -1$.

$$-3(-1)^3 - 2(-1)^2 + 7$$

$$-3(-1) - 2(1) + 7$$

$$3 - 2 + 7$$

$$1 + 7$$

8

3.) Is the relation $\{(-2, 1), (3, 9), (-2, 2), (-3, -1)\}$ a function? Explain your answer.

$x = -2$ has 2 different y -values

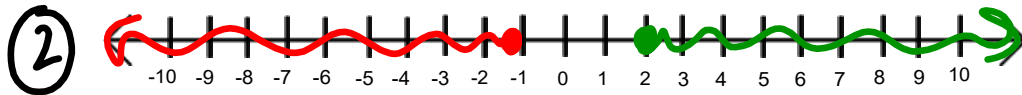
PREFABS

Solve. Write the solution as a set and interval.

$$3n - 1 \leq -5 \quad \text{or} \quad 5 \leq 3n - 1$$

① $3n \leq -4$
 $n \leq -\frac{4}{3}$

$-3n + 5 \leq -1$
 $-3n \leq -6$
 $n \geq 2$



③ $\{n \mid n \leq -\frac{4}{3}, n \geq 2\}$

④ $(-\infty, -\frac{4}{3}] \cup [2, \infty)$

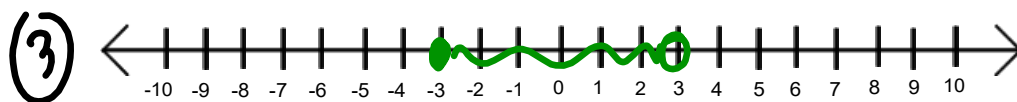
Solve. Write the solution as a set and interval.

$$-5 < 1 - 2x \leq 7$$

① $-6 < -2x \leq 6$
 $3 > x \geq -3$

② $\{x \mid -3 \leq x < 3\}$

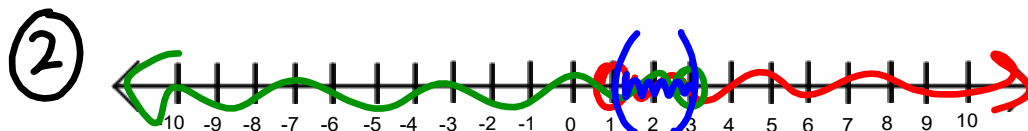
$-3 \leq x < 3$



④ $[-3, 3)$

Solve. Write the solution as a set and interval.

$$\begin{array}{ccc} 5 - x < 4 & \text{and} & 3x - 2 < 7 \\ \textcircled{1} \quad -x < -1 & & 3x < 9 \\ \quad \quad x > 1 & & x < 3 \end{array}$$



$$\textcircled{3} \{ x \mid 1 < x < 3 \}$$

$$\textcircled{4} (1, 3)$$