Name: Date: _

Unit 3 Review Sheet

As a reminder: This review is **not comprehensive**. You should review your class notes and homework,

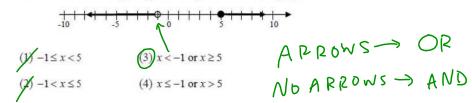
1. The inequality 2x+1>15 will be true when

(1)
$$x = 7$$
 $(3) x = 10$

$$(5 - 1)(5)(3) x = 10$$

$$2 \times + 1 > 15$$
 $-1 > 14$
 $2 \times 2 > 2 \times 2 = 2 \times$

2. Which of the following compound inequalities is shown graphed below?



3. The sum of two consecutive odd integer is at least 16. Which of the following inequalities would model

$$(y)$$
 $n+n+3<16$

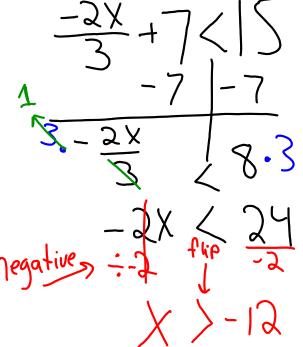
(5)
$$n+n+2>16$$

$$2)n+n+2\geq 1$$

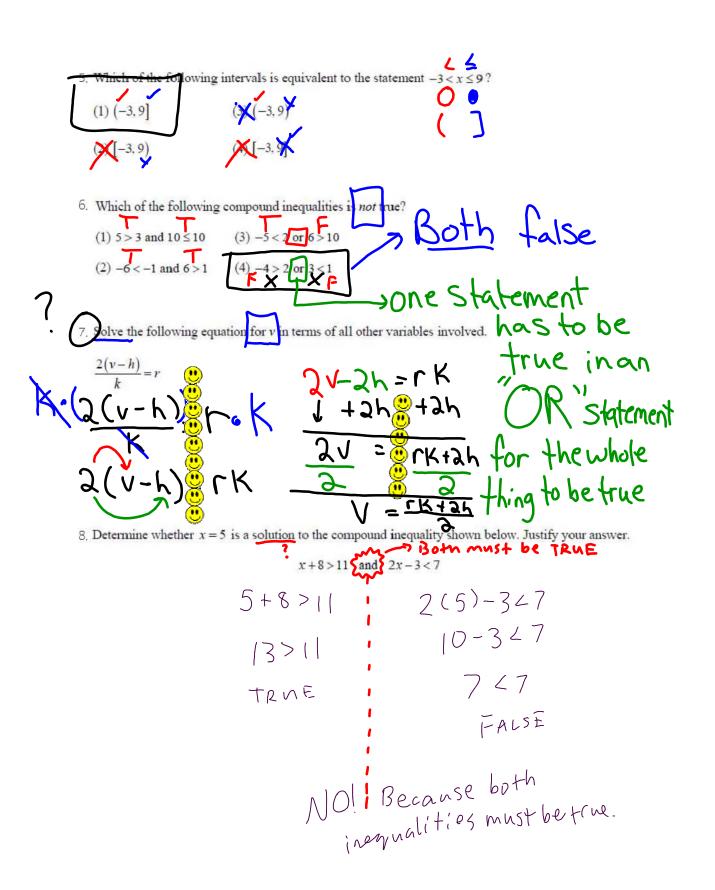
$$(4)$$
 $n+n+3>16$

4. The <u>solution</u> to $\frac{-2x}{3} + 7 < 15$ is the set

- (1) x > -12
- (3) x > 33
- (2) x < -6
- (4) x < -10



Untitled.notebook October 30, 2017

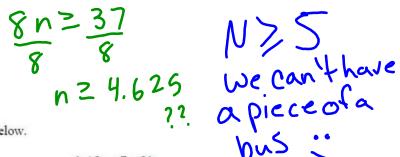


 The Arlington Math Team is taking small busses to its regional competition. Each bus holds only eight people and there are 35 students and two faculty advisors going on the trip.

If n represents the number of busses needed for the trip, write an inequality that models the different values of n that can get Arlington's Math Team to regionals.



Solve the inequality and state the least number of busses needed to transport the Math Team.



10. Consider the inequality given below.

 $-1 \le 2x + 7 < 21$

a. Is x = 3 part of the solution set of this compound inequality? Justify your response.

b. Solve the inequality and graph its solution set on the number line below.

Solve inequality #1 here:

Solve inequality #2 here: