

Review (in class)

Date _____ Period _____

Solve each equation.

1) $92 = -2x + 8(2x + 8)$

 $\{2\}$

2) $-136 = -8(5p + 8) + 4p$

 $\{2\}$

3) $7(-x + 2) - 8 = 1 - 7x$

No solution.

4) $2(1 - 2n) = -2 - 5n$

 $\{-4\}$

5) $35 = 2(-3v - 1) - (v - 2)$

 $\{-5\}$

6) $8(8p - 6) - 7(4 - 5p) = -76$

 $\{0\}$

7) $-(-3 + 8m) - 2 = -7(1 + 3m) + 5m$

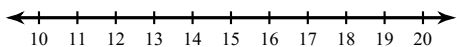
 $\{-1\}$

8) $-(6a + 6) = 3(a - 5)$

 $\{1\}$

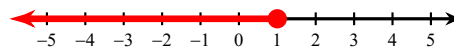
Solve each inequality and graph its solution.

9) $-x + 7 + x \leq 1$

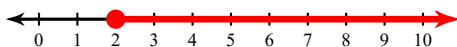


No solution.

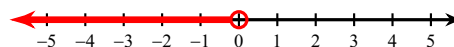
10) $-2n - 4n \geq -6$

 $n \leq 1$

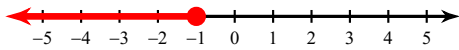
11) $18 \leq 7p + 2p$

 $p \geq 2$

12) $-4 > -2 + 5x - 2$

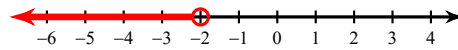
 $x < 0$

$$13) -4 + 5p \geq 5p + 4p$$



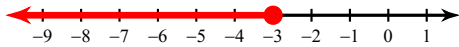
$$p \leq -1$$

$$14) -7n + 3 > -2n + 13$$



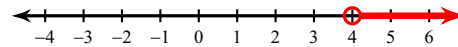
$$n < -2$$

$$15) 5(-3n + 8) \geq 85$$



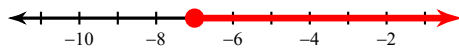
$$n \leq -3$$

$$16) -7a + 8(7a - 8) > 132$$



$$a > 4$$

$$17) -6 - 5(-2n + 1) \geq 7n - 32$$



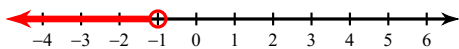
$$n \geq -7$$

$$18) -10 - 4r \leq 2(2r - 5) - 8r$$



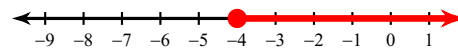
$$\{ \text{All real numbers.} \}$$

$$19) 45 < 5(-4x + 3) - 2(3 + 8x)$$



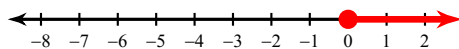
$$x < -1$$

$$20) 3(x - 1) - 8(1 + 2x) \leq 41$$



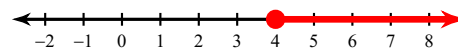
$$x \geq -4$$

$$21) -2x - 5 + 8 \geq 2(5 + 5x) - 7(1 + 2x)$$



$$x \geq 0$$

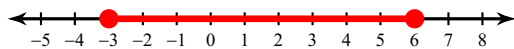
$$22) 8(n + 5) - 7n \leq -4(-3n + 1)$$



$$n \geq 4$$

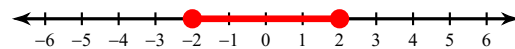
Solve each compound inequality and graph its solution.

$$23) -10v - 8 \geq -68 \text{ and } v - 3 \geq -6$$



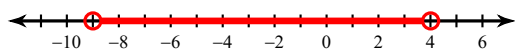
$$-3 \leq v \leq 6$$

$$24) -5n - 2 \geq -12 \text{ and } 8n - 4 \geq -20$$



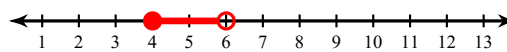
$$-2 \leq n \leq 2$$

25) $5n - 4 > -49$ and $10n + 4 < 44$



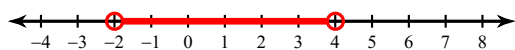
$-9 < n < 4$

26) $10 \leq -6 + 4m < 18$



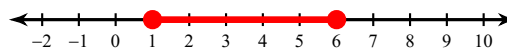
$4 \leq m < 6$

27) $0 < 4k + 8 < 24$



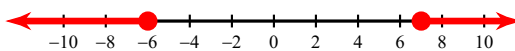
$-2 < k < 4$

28) $-63 \leq -9n - 9 \leq -18$



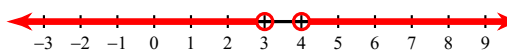
$1 \leq n \leq 6$

29) $-5x - 5 \leq -40$ or $4x + 8 \leq -16$



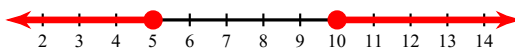
$x \geq 7$ or $x \leq -6$

30) $-8n + 4 > -20$ or $5n + 8 > 28$



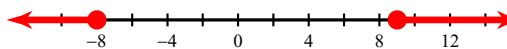
$n < 3$ or $n > 4$

31) $10k - 7 \geq 93$ or $5 + 3k \leq 20$



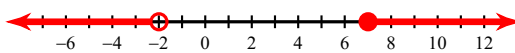
$k \geq 10$ or $k \leq 5$

32) $4 + a \geq 13$ or $5a - 9 \leq -49$



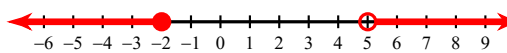
$a \geq 9$ or $a \leq -8$

33) $-3 - 8x > 13$ or $7x + 1 \geq 50$



$x < -2$ or $x \geq 7$

34) $10 - 7x \geq 24$ or $8 + 4x > 28$



$x \leq -2$ or $x > 5$