

## Review (hwk)

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation.**

1)  $36 + 8n = -8(-7n + 8) + 2n$

2)  $2(4k + 6) = k + 40$

3)  $3(n - 1) - 3(8 - 8n) = 0$

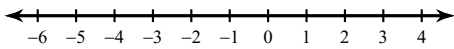
4)  $-5(2 + 3m) + 5(7m - 4) = -50$

5)  $-6(1 + 6v) = 3(v - 2)$

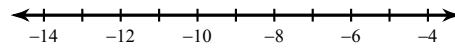
6)  $-6(m - 8) - 5(m + 5) = m + 2 - 8m + 1$

**Solve each inequality and graph its solution.**

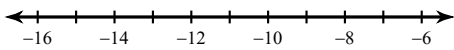
7)  $14 + x + 4x < x + 6$



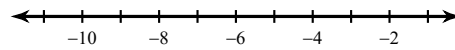
8)  $3a + 7 \leq 2a - 1$



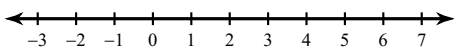
9)  $2(2 - 2v) - 6v > 84$



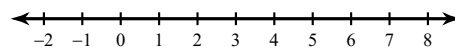
10)  $7(x - 8) \leq -112$



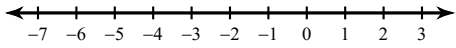
11)  $2v - 8 \leq -6v + 8(-1 - 6v)$



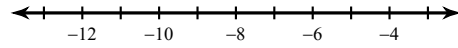
12)  $-5r - 10 \leq -2(4r - 1)$



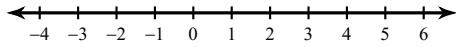
$$13) 7(5 - 7x) + 2(x - 4) < 74$$



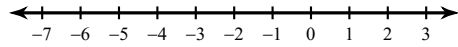
$$14) 8(7 - 2r) - 4(6 - 5r) < 8$$



$$15) -8(3x - 5) > -4x - 5(x + 4)$$

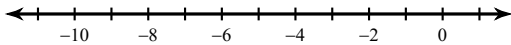


$$16) -4(5x + 5) + 4 < 2(-8 + 2x) - 6x$$

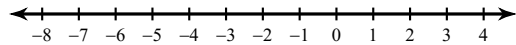


**Solve each compound inequality and graph its solution.**

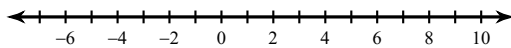
$$17) -70 < 8r - 6 < -62$$



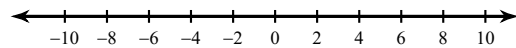
$$18) 4n + 6 < 2 \text{ and } -9n + 9 < 27$$



$$19) 6 + 9x > 69 \text{ or } 9x - 5 < -41$$



$$20) 1 - 4k \leq -19 \text{ or } 6k + 10 \leq -26$$



**LITERAL EQUATIONS. Solve for the given variable.**

$$21) S = 180n - 360 \text{ for } n$$

$$22) ax + r = 5 \text{ for } r$$

$$23) 3x + 7y = 2 \text{ for } y$$

$$24) 4y + 3x = 5 \text{ for } x$$

$$25) y = mx + b \text{ for } m$$

## Answers to Review (hwk) (ID: 1)

1)  $\{2\}$

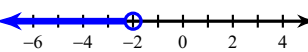
2)  $\{4\}$

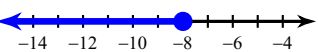
3)  $\{1\}$

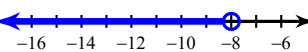
4)  $\{-1\}$

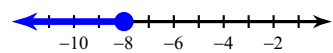
5)  $\{0\}$

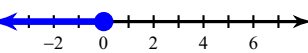
6)  $\{5\}$

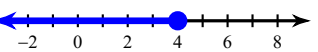
7)  $x < -2$ : 

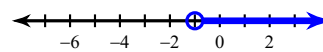
8)  $a \leq -8$ : 

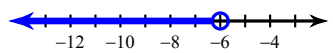
9)  $v < -8$ : 

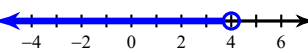
10)  $x \leq -8$ : 

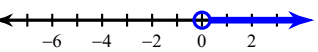
11)  $v \leq 0$ : 

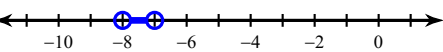
12)  $r \leq 4$ : 

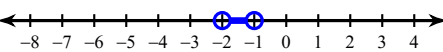
13)  $x > -1$ : 

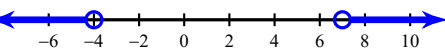
14)  $r < -6$ : 

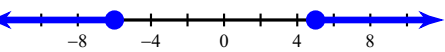
15)  $x < 4$ : 

16)  $x > 0$ : 

17)  $-8 < r < -7$ : 

18)  $-2 < n < -1$ : 

19)  $x > 7$  or  $x < -4$ : 

20)  $k \geq 5$  or  $k \leq -6$ : 

21)

22)

23)

24)

25)