

## Ch3/Ch6 Review

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

**Solve each equation.**

1)  $1 + 3x = 52$

2)  $-7 + 10k = -167$

3)  $\frac{k}{4} - 9 = -4$

4)  $\frac{a}{6} + 8 = 12$

5)  $-10x - 4 = -154$

6)  $-3 - 5m = 37$

7)  $2(9 + m) = 60$

8)  $-9(n - 11) = -108$

9)  $-4b - 8 = -2b + 4$

10)  $5n - 3 = 9 + n$

11)  $m + 6 = -12 - 2m$

12)  $-5r + 5 - 3 = 11 + 4r$

13)  $-7(n + 4) = -7n - 27$

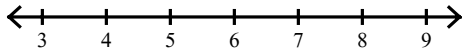
14)  $5(1 - 6n) = 37 + 2n$

15)  $-9 - 5x = -4(4x - 6)$

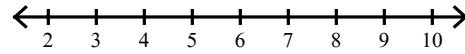
16)  $3(1 - 2a) + 4 = 35 + 8a$

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

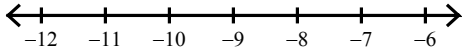
17)  $-3(-2 + a) \geq -9$



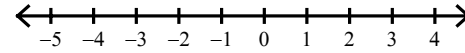
18)  $-5 + 3x < 10$



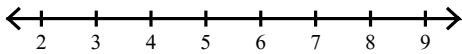
19)  $-1 + \frac{a}{8} > -2$



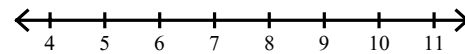
20)  $-3(2 + n) > -6$



21)  $-2n - 5 > -15$

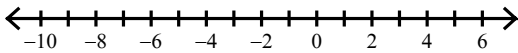


22)  $\frac{a}{2} - 5 > -2$

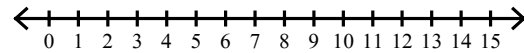


**Solve each compound inequality and graph its solution.**

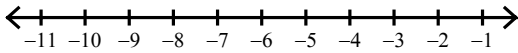
23)  $-6 + p > -4$  or  $8 + 10p \leq -42$



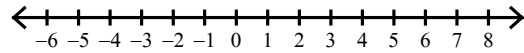
24)  $-5 - 7n > -40$  or  $-8 + 4n > 32$



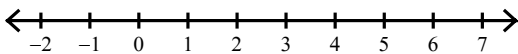
25)  $-13 < 3 + 2n < -1$



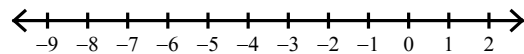
26)  $-13 < -k - 8 \leq -4$



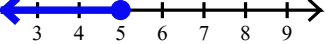
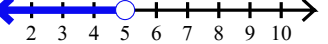
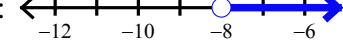
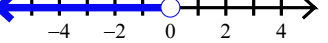
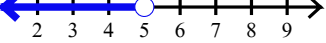
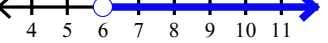
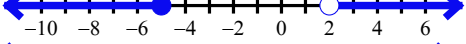
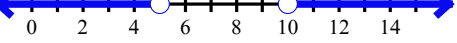
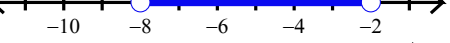


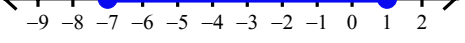
27)  $-9p + 5 \geq -22$  or  $2 - 5p < -18$



28)  $5 \geq -1 + 6k \geq -43$



## Answers to Ch3/Ch6 Review (ID: 1)

- |                  |          |          |          |
|------------------|----------|----------|----------|
| 1) {17}          | 2) {-16} | 3) {20}  | 4) {24}  |
| 5) {15}          | 6) {-8}  | 7) {21}  | 8) {23}  |
| 9) {-6}          | 10) {3}  | 11) {-6} | 12) {-1} |
| 13) No solution. | 14) {-1} | 15) {3}  | 16) {-2} |
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|--|--|
| 17) $a \leq 5$ :  | 18) $x < 5$ :  |
| 19) $a > -8$ :    | 20) $n < 0$ :  |
| 21) $n < 5$ :     | 22) $a > 6$ :  |
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|--|
| 23) $p > 2$ or $p \leq -5$ :  |
| 24) $n < 5$ or $n > 10$ :     |
| 25) $-8 < n < -2$ :           |
| 26) $-4 \leq k < 5$ :         |
| 27) $p \leq 3$ or $p > 4$ :   |
| 28) $-7 \leq k \leq 1$ :      |