

HW43: Review

Evaluate each using the values given.

1) $|m + p| - 11$; use $m = 9$, and $p = -12$

2) $y - (z - x + x)$; use $x = -8$, $y = 7$, and $z = 13$

3) $m|p - 12|$; use $m = 5$, and $p = 14$

4) $|m| + n - n$; use $m = 12$, and $n = 10$

Simplify each expression.

5) $10 + 10(5k + 6)$

6) $-6(m + 8) - 3$

7) $10(r + 2) + 9r$

8) $7 + 2(x + 7)$

Solve each equation.

9) $12 - 7a = 6a - 7a$

10) $6n - 3 = 8n - 5$

11) $x - 8 = -3x + 2x - 12$

12) $3 + x = 1 + 2x$

13) $7m - 23 = 1 + 6(m - 4)$

14) $21 - 4r = -5(r - 5)$

Solve each inequality and graph its solution.

15) $115 < 3(5x + 2) + 4$

16) $110 > 6 + 4(2 + 6n)$

17) $96 \leq 4(-4 - 4x)$

18) $162 < 3(6 - 8p)$

Solve each system by elimination.

19)
$$\begin{aligned} -9x + 10y &= 2 \\ 9x - 10y &= -2 \end{aligned}$$

20)
$$\begin{aligned} 4x + 2y &= -24 \\ -4x + y &= 12 \end{aligned}$$

21)
$$\begin{aligned} 4x - y &= -21 \\ -x - 4y &= -16 \end{aligned}$$

22)
$$\begin{aligned} 5x + y &= -14 \\ 10x + 2y &= -18 \end{aligned}$$