

## HW 1-4

## Int 2

## Multi-Step Equations &amp; Inequalities - Like Terms &amp; Distributing

## Unit 1

Determine whether the solution given for the equation is correct. If the given solution is not correct, solve to find the correct solution.

1. Solution:  $v = 10$

Equation:  $8 = 8v - 4(v + 8)$

Yes!

2. Solution:  $r = \frac{1}{2}$

Equation:  $6r - 1 + 6r = 11$

3. Solution:  $x = 0$

Equation:  $-28 = -14x - 14x$

NO.  $x = 1$ 

Solve for the unknown quantity. Graph the solution set for inequalities.

4.  $10y - 4y = 24$

9.  $7 = 6x - 5x$

$x = 7$

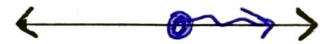
5.  $4f - 7f = -12$

$f = 4$

10.  $9(j - 4) = 81$

6.  $3h - 8h = 18$

11.  $5a + 2a - 3 \geq 11$



$a \geq 2$

7.  $3(2 + n) + 5n = 22$

$n = 2$

12.  $43 = 3(x + 2) + 2(2x + 1)$

8.  $5c + c = 30$

13.  $310 = 100m + 100m - 50$

$m = \frac{9}{5}$

14.  $36 = 9v + 6 + 6v$

21.  $2n + n + 3(n + 4) = 24$

$n = 2$

15.  $2(m + 3) = 20$

$m = 7$

22.  $6(y - 3) = -6$

16.  $15 = -2(h + 3) + 4$

23.  $8m - \frac{1}{2}(24 + 4m) = 72$

17.  $38 = 3(x + 2) + 5x$

$m = 14$

$x = 4$

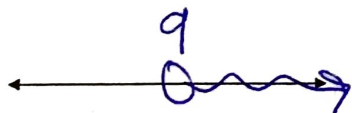
24.  $4(w - 1) = -8$

18.  $3(m + 3) - 5 = 16$

25.  $100j + 40 - 99j = 50$

$j = 10$

19.  $8b - 6b > 18$

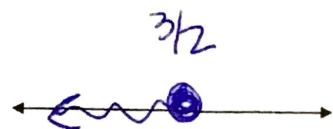


$b > 9$

26.  $-12(k + 4) = 60$

20.  $3h + 5 - 2(3h + 2) = 0$

27.  $\frac{2}{3}(9x + 6) \leq 13$



$x \leq \frac{3}{2}$