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## HW 3-7

## Add &amp; Subtract

Int 1

## Algebraic Expressions (DAY 2)

Unit 3

Simplify each algebraic expression by distributing and combining like terms.

1.  $(3x+5)+(4x-1)$

$7x + 4$

6.  $5\left(\frac{4}{5}x + \frac{9}{5}\right) + \frac{1}{3}(-9x + 15)$

2.  $\frac{1}{2}(8x-6)+(-2x+1)$

7.  $-\frac{1}{8}(24x+56)+6(3x-5)$

$15x - 37$

3.  $(-7x+4)+(-5x-12)$

$-12x - 8$

8.  $4(3x+5)+5(-2x-2)$

4.  $(x-10)+(-5x-2)$

9.  $\frac{2}{3}(-30x+3)-\frac{1}{4}(100x+20)$

$-45x - 3$

5.  $2(7x-9)-8(x-6)$

$6x + 30$

10.  $(x-10)+(7x+21)$

$$11. 3(x+4)-(x-6)$$

$$2x+18$$

$$12. (x-16)+(-3x+16)$$

$$13. (6x-2)-(9x+3)$$

$$-3x-5$$

$$14. (-4x+7)-(-7x-8)$$

$$15. (6x-7)-(2x+5)$$

$$4x-12$$

$$16. 3.4(x-3)+2.5(-x+5)$$

$$17. (9x-11)-5(x-6)$$

$$4x+19$$

$$18. -\frac{1}{2}\left(-\frac{3}{4}x-8\right)-\frac{1}{8}(x+16)$$

$$19. \frac{1}{100}(500x-100)-(3x-100)$$

$$2x+99$$

$$20. -5(x+9)+(5x+16)$$

$$21. 8(8u+3v+6)+2(-4u-2v-1)$$

$$56u+22v+46$$

22.

$$\frac{5}{8}(40m + 24p + 80) - (10m + 3p + 30)$$

### Review Questions

Simplify each of the following expressions.

23.  $4x - 2 + 3x + 4x - 2 + x$

$$12x - 4$$

24.  $50 - 10(4x + 3) + 14x$

Evaluate each of the following. Remember to show your work!

25.  $\frac{4}{19} + \frac{3}{10}$   $\frac{97}{190}$

27.  $3\frac{4}{5} \div \frac{2}{15}$   $\frac{57}{2}$  or  $28\frac{1}{2}$

26.  $\frac{44}{63} \cdot \frac{9}{55}$

28.  $-1 \cdot 4 \cdot (-3) \cdot (-3)$