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## 3-7 HW

Int 1

## Adding and Subtracting Linear Expressions

Unit 3

Simplify the following expressions:

1.  $6(-x+12)-3(-4x+2)$

$$6x+66$$

2.  $-4(5x+-7)-6(3x-9)$

3.  $(5x+7)-(x-2)$

$$4x+9$$

4.  $(2x-6)-(x-7)$

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

$$7x+4$$

6.  $(6x+2)-(4x-7)$

7.  $2(4x-8)-3(-3x+10)$

$$17x-46$$

8.  $(9x-11)-5(x-6)$

9.  $(-5x-3)+(-2x+1)$

$$-7x-2$$

10.  $7(3x+4)-10(x+1)$

11.  $-8(2x+4)-2(-7x+2)$

$$-2x-36$$

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

13.  $-4(6x+3)-6(4x-4)$

$$-48x+12$$

14.  $5(x+4)-5(-3x+6)$

Simplify the following expressions:

15.  $-11(3x-2)-7(x-2)$

$$-40x + 36$$

16.  $2(7x-9)+8(-x-6)$

17.  $(14x-9)-13(3x-1)$

$$-25x + 4$$

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

19.  $5(-3x+9)+3(14x-2)$

$$27x + 39$$

20.  $5(9g-9h)-4(3g+6)$

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

$$72u - 20v + 50$$

22.  $-12(x-1)+(6x+3)$

23.  $11(4x+2)-8(3x-1)$

$$20x + 30$$

**CORE REVIEW:**

Simplify the following expressions.

24.  $4x-2+3x+4x-2+x$

25.  $50-10(4x+3)+14x$

$$-26x + 20$$

Evaluate the following expressions if  $x = \frac{2}{5}$  and  $y = \frac{5}{6}$ .

26.  $xy$

$$\frac{1}{3}$$

27.  $x - y$

28.  $x^2$

29.  $3x + 2y$

30.  $x + y$   $\frac{12}{25}$