

HW 3-7**Add & Subtract****Int 1****Algebraic Expressions (DAY 2)****Unit 3**

Simplify each algebraic expression by distributing and combining like terms.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

22.

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

Review Questions

Simplify each of the following expressions.

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

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

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

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

27. $3\frac{4}{5} \div \frac{2}{15}$

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

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