

3-6 HW - Adding Expressions**CORE REVIEW:**

Simplify each of the following expressions.

1. $12j + 5 - 2j + 3h$ $10j + 3h + 5$

2. $8(4x + 3)$

3. $-6(9x - 2)$ $-54x + 12$

Factor the following expressions completely.

4. $36x + 24$

5. $25a - 45ab$ $5a(5 - 9b)$

6. $21gh + 7fgh$

Use your 3-6 Notes from last class to help you remember how to simplify each of the following expressions. You need to distribute the number at the beginning of each parentheses and then combine like terms.

7. $5(-3x - 9) + 9(4x + 8)$

$21x + 27$

13. $(x - 4) + (-2x + 1)$

$-x - 3$

8. $8(-9x - 12) + 3(x - 8)$

14. $6(x + 7) + (x + 3)$

9. $3(14x + 7) + 9(-3x + 2)$

$15x + 39$

15. $2(12x + 19) + 2(x - 10)$

$26x + 18$

10. $6(2x - 1) + 4(-3x + 7)$

16. $(5x + 7) + (x + 2)$

11. $7(-5x + 4) + 2(-9x - 2)$

$-53x + 24$

17. $(-6x + 3) + (x - 7)$

$5x - 4$

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

18. $(-x + 12) + (-4x + 2)$

$$19. (-5x + 3) + (-7x - 1)$$

$$-12x + 2$$

$$20. (-x + 3) + (4x - 10)$$

$$21. (5x + 4) + (-8x - 2)$$

$$-3x + 2$$

$$22. (-7x + 1) + (4x - 5)$$

$$23. (6x - 2) + (-x + 5)$$

$$5x + 3$$

$$24. (-9x + 1) + (-7x + 8)$$

$$-16x + 9$$

$$25. -3(11x + 2) + (-2)(-8x - 2)$$

$$26. 2(-9x - 10) + 10(-5x - 4)$$

$$-68x - 60$$

$$27. \text{ Find the sum of } (10x + 3) \text{ and } (-4x - 2).$$

$$28. \text{ Find the sum of } (x + 3) \text{ and } (-x - 4).$$

$$-1$$

29. Write and simplify an expression to represent the perimeter of the triangle shown.

