Distributive Property

When there are parentheses in the expression, you must “DISTRIBUTE” whatever is on the outside of the parenthesis to EVERYTHING on the inside of the parenthesis using \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Examples:

1. 5(x + 12) 2. 3(6 + 2y)

3. -4(3x + 8) 4. 7(2b – 3)

5. -4(6a – 4)

Now, put it all together and simplify these expressions…

6. 2(3x + 4) + 8x + 6 7. -3(6 + 2x) + 12 – 3x

8. 4(x + 3) + 2x + 8 9. 3y + 8 + 4(6y + 3)

10. 10(x – 5) + 5x – 6 11. -8(2x + 5) + 12x

12. -3(x – 8) + 5x + 20