Name: _____ **Secondary Math 1**

Unit 1.3 Solving Equations Variable on both Sides

Solve each equation.

1. $5x + 2 = 3x - 6$

2. $7x - 5x + 15 = x + 8$

3. $2x + 4 - x = 4x - 5$

4. $-4x + 5x - 8 + 4 = 6x - 4$

5. $2(3 - 2x) = x - 4$

6. $-6x + 2x - 11 = -2(2x - 3) + 4$

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

8. $4(2x + 7) = 2x + 25 + 3(2x + 1)$

9. $-[6x - (4x + 8)] = 9 + (6x + 3)$

10. $-3x + 6 - 5(x - 1) = -5x - 5(2x - 4) + 5$

11. $7[2-(3+4x)]-2x=-9+2(1-15x)$

12. $2[-(x-1)+4]=5+[-(6x-7)+9x]$

13. $\frac{2x-3}{7}+\frac{3}{7}=-\frac{x}{3}$

14. $\frac{2x+5}{5}=\frac{3x+1}{2}+\frac{-x+7}{2}$

15. $0.02(50)+0.08x=0.04(50+x)$

16. $0.20(14{,}000)+0.14x=0.18(14{,}000+x)$

17. $0.006(x+2)=0.007x+0.009$

18. $0.08x+0.12(260-x)=0.48x$