

WMH # 3: Solve the following equations. Some equations will have one solution, others will have no solutions, and others will have infinite solutions. **Include the value of x and the number of solutions for each problem.**

- 1) $2x + 2x + 2 = 4x + 2$
- 2) $3(x - 1) = 2x + 9$
- 3) $-2(x + 1) = -2x + 5$
- 4) $12 + 2x - x = 9x + 6$
- 5) $2(3x + 3) = 3(2x + 2)$
- 6) $3x + 1 = 3(x - 1) + 4$
- 7) $4x + 2x - 5 = 7x - 1$
- 8) $2(x + 5) = 2x + 5$
- 9) $4(x + 1) = 4(2 - x)$
- 10) $6(x + 1) + 5 = 13 - 2 + 6x$

Hint: **Steps**

- 1) Distribute
- 2) Combine Like Terms
- 3) Worry about your X's

Remember:

- One solution example $x = 5$
- No solution example $7 = 3$
- Infinitely many solutions $8 = 8$