

AGS 1 Name: _____ Period: _____ Date: _____

Assignment 5.2 – Solving Equations and Inequalities

Solve equation for the given variable, showing each step.

1. $7x - 2 = 26$

2. $\frac{x}{2} - 5 = 11$

3. $-2(3x - 1) = 0$

4. $7 - \frac{x}{8} = -2$

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

6. $\frac{1}{3}(x + 8) = 9$

7. $8x + 5 = 6x + 1$

8. $x + 1 = 3x - 1$

9. $8 + 4x = 9x - 7$

10. $19 - 13x = -17x - 5$

11. $5x - 7 = 2(x + 1)$

12. $\frac{2}{5}(x + 6) = 10$

13. $3(x + 12) = 8 - 4x$

14. $8x = 4(2x + 1)$

15. $\frac{3}{5}(5 + 10x) = 5(x + 2)$

16. $4(x - 3) = -2(6 - 2x)$

Refresh your memory.

Fill in the table, then write a sentence explaining how you figured out the values to put in each cell.

17.

x	0	1	2	3	4	5	6
y	2	4	8				

Common Ratio:

Recursive Equation:

Explicit Equation:

Explanation: