

Wisdom Lane Middle School  
Name: \_\_\_\_\_  
Teacher: Mr. Tomeo

## Homework #17

Date: \_\_\_\_\_  
Period: \_\_\_\_\_

### One, Infinite and No Solution

Solve each of the following equations for the unknown variable. State if the solution is **one**, **no** or **infinite**.

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1.  $2x + 2x + 2 = 4x + 2$

6.  $4x + 2x + 2 = 3x - 7$

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2.  $3(x - 1) = 2x + 9$

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

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3.  $2x + 8 = 2(x + 4)$

8.  $4(x - 1) = \frac{1}{2}(x - 8)$

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4.  $2x - x + 7 = x + 3 + 4$

9.  $x + 2x + 7 = 3x - 7$

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

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

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$$11. 4(2x+1) = 5x+3x+9$$

$$16. 10+x = 5\left(\frac{1}{5}x+2\right)$$

$$12. \frac{1}{2}(2-4x)+2x=13$$

$$17. 12+2x-x=9x+6$$

$$13. 8(x+2) = 2x+16$$

$$18. 4x+1 = 2(2x+3)$$

$$14. 3+\frac{3}{2}x+4=4x-\frac{5}{2}x$$

$$19. x+5x+4=3(2x-1)$$

$$15. \frac{3}{2}(2x+6) = 3x+9$$

$$20. 4(x+1) = 4(2-x)$$