**Algebra I Sections 2.4 & 2.6 Quiz Review**

**Find the EXACT solution to each equation. If it’s an identity, write ‘*All Real Numbers’***, **otherwise write *No Solution*.**

1. $5a+17=32+3a$ 2. $12x=14x-22$

3. $8+2\left(r-4\right)=66-7r+19-8r$ 4. $2\left(w-3\right)=\frac{1}{2}(4w-12)$

5. $2\left(y-3\right)=\left(y-1\right)+7$ 6. $-\left(x+7\right)=-6x+8$

7. $-2\left(2t+3\right)=-4\left(t+1\right)-2$ 8. $6x-9x-4=-2x-2$

9. $-2x=-3x+12-2x$ 10. $4\left(x+20\right)=\frac{1}{5}(20x+400)$

11. $5x+3-2x-8=3\left(x+6\right)-1$ 12. $4Q-2\left(Q+3\right)-1=Q-3+Q-4$

13. Solve for **T**. $A=TV$ 14. Solve for **K**. $M=K-E$

15. Solve for **M**. $GH+RM=K$ 16. Solve for **A**. $\frac{A}{W}+N=Q$

17. Solve for **Y**. $R= \frac{Y-H}{C}$ 18. Solve for **B**. $A\left(B-G\right)+Z=R$

19. Solve for **N**. $\frac{MN+P}{E}-K=X$ 20. Solve for **W**. $T=Q(RW-2L)$

ANSWERS:

1. $a=\frac{15}{2}$ 6. $x=3$ 11. No Solution

2. $x=11$ 7. Identity (All Real Numbers) 12. Identity (All Real Numbers)

3. $r=5$ 8. $x= -2$ 13. $T=\frac{A}{V}$

4. Identity (All Real Numbers) 9. $x=4$ 14. $K=M+E$

5. $y= 12$ 10. Identity (All Real Numbers) 15. $M=\frac{K-GH}{R}$

16. $A=W(Q-N)$ 17. $Y=RC+H$ 18. $B=\frac{R-Z}{A}+G$ or $\frac{R-Z+GA}{A}$

19. $N=\frac{E\left(X+K\right)-P}{M}$ 20. $W=\frac{\frac{T}{Q}+2L}{R}$ or $\frac{T+2LQ}{QR}$