ALGEBRA 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#5 WKST Period: \_\_\_\_\_\_\_

SOLVE EACH EQUATION. CHECK YOUR SOLUTION.

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| 1. z – 19 = 34 | 2. x + 13 = -7 | 3. –y + 9 = 23 |
| 4. -6z = 42 | 5. 5x – 3 = -33 | 6. -6y – 8 = 18 |
| 7. 3(2a + 3) – 4(3a – 6) = 15 | 8. 5(c – 8) – 3(2c + 12) = -84 | 9. -3(-2x + 20) + 8(x + 12) = 92 |
| 10. -4(3y – 10) – 6(-7y – 6) = -74 | 11. 7y – 2y + 4 + 3y = -20 | 12. 5g + 18 – 7g + 4g = 8 |
| 13. 5(-2x – 4) – 3(4x + 5) = 97 | 14. -2(3y – 6) + 4(5y – 8) = 92 | 15. $\frac{2}{3}\left(6c-18\right)+ \frac{3}{4}\left(8c+32\right)=-18$ |
| 16. $\frac{3}{5}\left(15a+5\right)-\frac{1}{6}\left(18a-12\right)=38$ | 17. 5x – 9 = 11x + 3 | 18. $\frac{1}{y}+\frac{1}{4}=\frac{7}{12}$ |
| 19. 5.4(3x – 12) + 3.2(2x+6) = 88 | 20. 3(a – 7) = 5(a + 3) | 21. -6(2y + 2) = 18 – 4(-4y – 9) |

Write an algebraic expression to represent each verbal expression.

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| 22. the difference between the product of four and a number and six. | 23. the product of the square of a number and eight. |
| 24. fifteen less than the cube of a number. | 25. five more than the quotient of a number and four. |