Algebra 2 Unit 1: Solving Systems of Equations
Worksheet Linear System of Equations **Name _____**

Describe the type of system of equations each system is. How do you know it is?

1. $y = -2x + 1$ $2x + y = -3$

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2. $x + 2y = 10$ $2x + 4y = 20$

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3. $2x + y = 2$ $3x + 5y = 8$

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4. $y = 3x + 4$ $x = 4$

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5. $3x + 2y = 12$ $2x + 4y = 8$

_____

Is $(-1, 5)$ a solution of each solution?

6. $x + y = 4$ $x = -1$ _____

7. $y = -x + 4$ $y = -0.2x$ _____

8. $y = 5$ $x = y - 6$ _____

9. $2x - y = -7$ $y = x + 6$ _____

Which method would you use to solve the system of linear equations? Explain why.

10. $y = 4x - 8$ $y = 2x + 10$

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11. $y = x - 2$ $2x + 2y = 4$

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12. $3x - 6y = 30$ $6x + y = 34$

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13. $y = 3$ $2x + y = -15$

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14. $5x + 4y = 5$ $y = 5x$

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15. $4x + y = -2$ $2x + 3y = -1$

Solve the systems of linear equations by any method if there is a solution.

16. $y = -x + 4$ $y = 2x + 6$ _____

17. $10x + 8y = 2$ $5x + 4y = 1$ _____

18. $2x + 18y = -9$ $4x + 18y = -27$ _____

19. $y = x + 2$ $2x + y = 3$ _____

20. $2x + 4y = -12$ $x + 2y = 6$ _____