Integrated Algebra Practice: A.A.10 #4 www.jmap.org

P.I. A.A.10: Solve systems of two linear equations in two variables algebraically

1. Solve by the elimination method: 3x - 4y = 10x + y = 1 NAME:\_\_\_\_\_

5. Solve by the elimination method: 3x - 4y = 17x + y = 1

6. Solve by the elimination method: 3x - 2y = 7x + y = 4

2. Solve by the elimination method: 3x - 2y = 15

x + y = 0

7. Which system has infinitely many solutions?

3. Solve by the elimination method: 3x - 2y = 7

$$x + y = -1$$

[A] 2x - y = -2 x - 2y = 2[B] 4x + 2y = 1 2x - y = 2[C] 3x - 3y = 3 x - y = 1[D] x + y = -1 x - y = 1[E] 2x - y = 22x + y = 2

4. Solve by the elimination method: 3x + 4y = 10

$$x + y = 3$$

NAME:

8. Compare the quantity in Column A with the quantity in Column B. 3x + 2y = 3

x + y = 2

Column A Column B

x - coordinate of solution y - coordinate of solution

[A] The quantity in Column A is greater. [B] The quantity in Column B is greater.

[C] The two quantities are equal.

[D] The relationships cannot be determined on the basis of the information supplied.

9. Solve the system using the method of elimination:

$$3x - 4y = -18$$
$$2x - y = -7$$

[A] dependent (many solutions) [B] (-2, 3) [C] inconsistent (no solution) [D] (-2, -3)

10. Solve the system using the method of elimination:

x + 4y = 112x + y = 8

[A] inconsistent (no solution)	[B] (3, -2)	[C] dependent (many solutions)	[D] (3, 2)
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- [1] (2, -1)
- [2] (3, -3)
- [3] (1, -2)
- [4] (2, 1)
- [5] (3, -2)
- [6] (3, 1)
- [7] <u>C</u>
- [8] B
- [9] B
- [10] D