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- *10 questions
- * Take your time use the lessons and your notes if you need them
- * Check your answers by using the online quiz feature input your selections for each question

Concept of Systems

- 1. True or False? Linear systems can be solved by using a graph.
 - a. True
 - b. False
- 2. Given any linear system- what could be the possible solutions?
 - a. system will always have one solution
 - b. system has two solutions because there are two equations
 - c. system will have three solutions
 - d. system will either have one solution, no solutions or infinite many solutions

Solving Systems

- 3. Determine if (2, 1) is a solution to the system: $\begin{cases} 5x + y = 11 \\ 3x 2y = 4 \end{cases}$
 - a. Yes, it is a solution
 - b. No, not a solution

- 4. Solve using the Substitution Method: $\begin{cases} x 2y = 0 \\ -3x + 4y = 10 \end{cases}$
 - a. (6,3)
 - b. (5, 10)
 - c. (-10, -5)
 - d. no solution

- 5. Solve using the Elimination/Linear Combination Method: $\begin{cases} x-y=4\\ 3x-2y=14 \end{cases}$
 - a. (3,6)
 - b. (1,6)
 - c. (3,5)
 - d. (6, 2)
- 6. Solve the system: $\begin{cases} 7x 3y = 26 \\ 2x + 5y = 25 \end{cases}$
 - a. (5,3)
 - b. $(-5, -\frac{61}{3})$
 - c. infinitely many solutions
 - d. no solution

- 7. Solve the system: $\begin{cases} 2x + 4y = 7 \\ 3x + 6y = 5 \end{cases}$
 - a. (0,0)
 - b. $(1, \frac{5}{4})$
 - c. (2, -7)
 - d. no solution
- 8. Solve the system: $\begin{cases} 7x + y = 3 \\ 21x + 5y = 11 \end{cases}$
 - a. (1,7)
 - b. $(\frac{2}{7}, 1)$
 - c. (-4,9)
 - d. no solution
- - a. $(\frac{1}{2}, 1)$
 - b. (5,2)
 - c. (2,0)
 - d. no solution

- Solve the system: 10.
 - (1, -10)
 - b. (5,1)
 - c. $(\frac{1}{2}, -5)$
 - d. no solution