

Please Circle all solutions. When you use graphing, please staple the graph to the system's sheet.

Your challenge as a group is to solve 5 systems of equations using the methods we've discussed in class.

Each group member will be contributing to this challenge.

You must:

1. Each system must be solved **twice** using **two different methods**.
2. You must have **at least one of each method** represented in your solution packet.

Recall the three methods for solving systems of equations:

1. Graphing
2. Substitution
3. Elimination

Which methods you use for each problem are up to you. Remember to look and see which method might be the best before you start to solve.

Names of partners:

1. _____
2. _____
3. _____
4. _____

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Systems of Equations Grading Rubric

	1	2	3	4
Correct Answers	Group has 0 out of 5 correct solutions to the systems	Group has 1-3 correct solutions to the systems	Group has 4/5 correct solutions to the systems	Group has 5/5 correct solutions to the systems
Questions Asked	Group asked more than 5 questions total during the activity.	Group asked 2-5 questions total during the activity.	Group asked 1 question total during the activity.	Group asked 0 questions total during the activity.
Followed directions	Group did not use 2 methods to solve each problem and did not demonstrate each method at least once.	Group did not use 2 methods some of the time but did demonstrate each method at least once.	Group used 2 methods for each problem but did not demonstrate each method at least once.	Group used 2 methods for each problem and demonstrated each method at least once.

For the teacher only:

Total number of questions asked: _____

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System #1.

$$\begin{cases} 3x + 4y = \frac{9}{2} \\ 2x - 3y = -\frac{5}{4} \end{cases}$$

Method #1.

Method #2.

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System #2.

$$\begin{cases} x + 2y = 24 \\ 3x = 2y \end{cases}$$

Method #1.

Method #2.

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System #3.

$$\begin{cases} x + y = -1\frac{3}{5} \\ y = -.5x - .6 \end{cases}$$

Method #1.

Method #2.

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System #4.

$$\begin{cases} -4x - y = 395.8 \\ 7x - y = -4092.2 \end{cases}$$

Method #1.

Method #2.

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System #5.

$$\begin{cases} 37.2x + 41.1y = 18.214 \\ 27.9x + 30.825y = 13.6605 \end{cases}$$

Method #1.

Method #2.