

Module 7 Lesson 6

Share 1 - 5

Work with a partner (if possible) to complete the questions in this Share activity. The following table shows four systems.

System	System Equations	Graphing Method	Substitution Method	Elimination Method
A	$2x + y = 15$ $3x - 5y = 3$			
B	$y = \frac{1}{3}x - 4$ $y = \frac{3}{4}x + 6$			
C	$9x - 4y = 22$ $5x - 7y = 17$			
D	$y = \frac{3}{5}x - 3$ $2x + 3y = 6$			

1. Examine each system and predict which of the three methods indicated in the table would be best used to determine the solution efficiently. (Put a checkmark in the appropriate column of the chart.)
2. Solve each system with each method indicated in the column heading, beginning with the method you chose in step 1.

With your partner, evaluate the methods used to solve each system. Summarize your discussion and record your answers. Be sure to include the following items in your response.

3. For each system in the table, how did you decide which method would be the most suitable for determining a solution?
4. Were there any systems for which the method you predicted was not ideal?
5. Create a two-column table that identifies properties of linear systems and the corresponding method used to solve those types of systems. Include both properties analyzed in this section as well as any other ones you and your partner have encountered in this module.