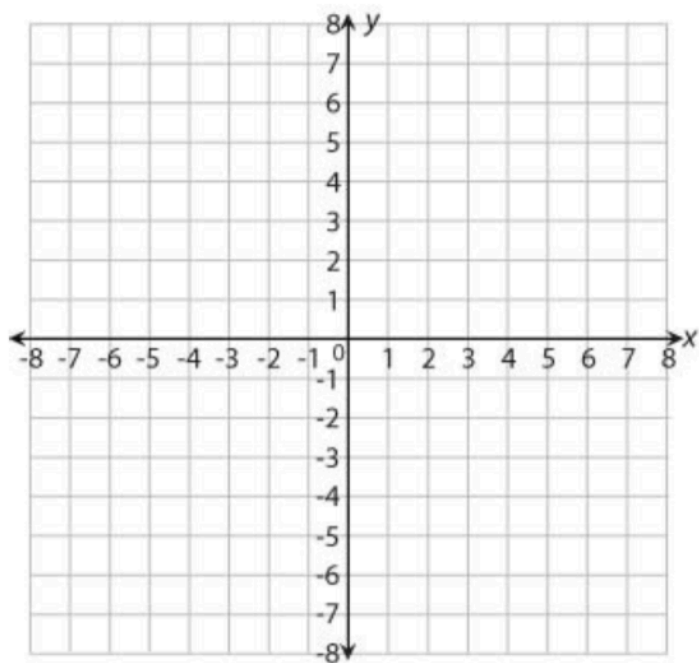


**Constructed Responses: System of Equations**

1. A system of equations is shown below.

$$\begin{cases} x - 4y = 7 \\ 3x + 2y = 9 \end{cases}$$

A. Graph the system of equations on this coordinate grid.



B. According to your graph, what is the approximate solution to the system of equations? Justify your answer.

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C. Use substitution to find the exact solution to the system of equations. Show your work.

D. Did your work in parts A and B provide a good approximation to the exact solution? Explain.

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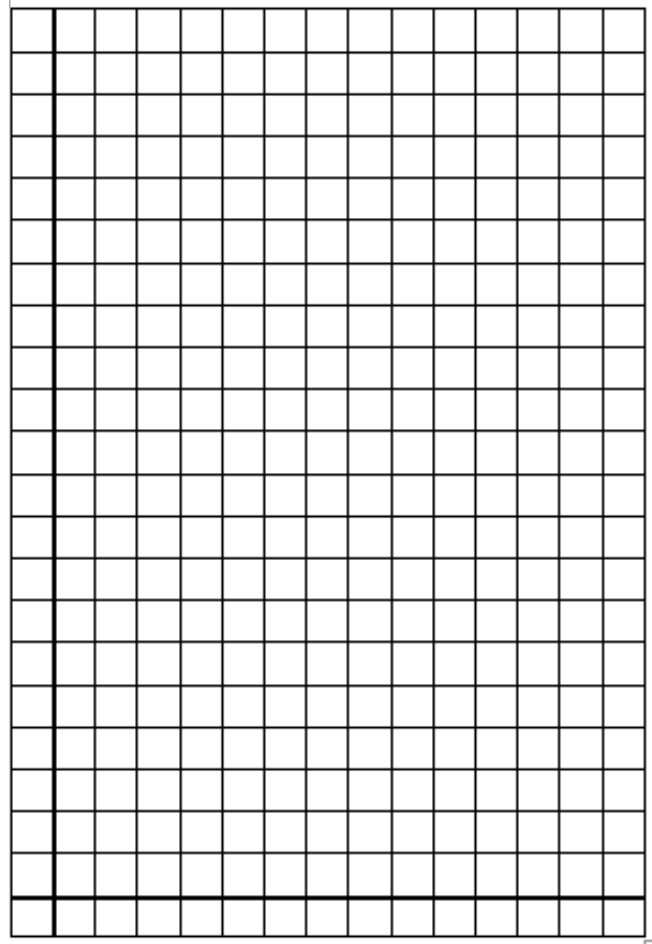
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2. Fernando leaves Burlington, traveling at an average rate of 60 miles per hour (mph). An hour later, Nathan also leaves Burlington, traveling in the same direction as Fernando but at an average rate of 75 mph.

Create a graph with two lines representing the distances traveled by Fernando and Nathan, given the time in hours. From the graph, determine the distance from Burlington at which Nathan catches up to Fernando. Justify your answer.



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3. Haddasah and Devon went shopping together. Haddasah bought 6 oranges and 5 lemons for \$5.67. Devon bought 3 oranges and 7 lemons for \$4.32. Their purchases can be modeled by a system of equations.

A. Write a system of equations that represents this situation. Define the variables.

B. Solve the system of equations algebraically for the variables defined in Part A. Explain how you solved the system of equations. Tell what each numerical solution represents in terms of the context.

Constructed Response DRAFT	Criteria For Success
<p><b><u>Evidence (Use a table/ equation/ graph/ diagram):</u></b></p>	<ol style="list-style-type: none"><li>1. Important information is annotated.</li><li>2. Restates the question in their claim. Claim is correct.</li><li>3. Provides at least one piece of relevant evidence to support claim. Evidence is correct.</li><li>4. Contains a complete explanation of how the evidence supports the claim. Includes at least 2 relevant vocabulary terms. Explanation is correct.</li></ol>

**Relevant Vocabulary Terms:** \_\_\_\_\_

**Claim (*Answer the question*):** \_\_\_\_\_

**Explanation (*Describe in detail how your evidence supports your claim*):**

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**Partner Feedback by** \_\_\_\_\_

Based on the Criteria for Success, my partner's constructed response score is \_\_\_\_/ 4 points. I scored my partner a \_\_\_\_ because \_\_\_\_\_

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