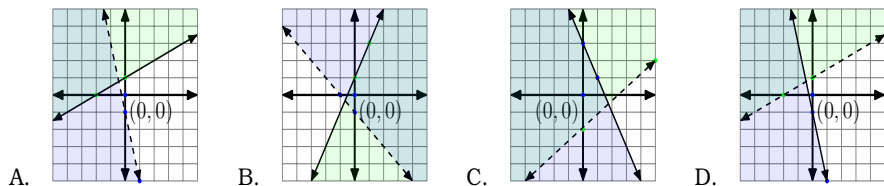


Quiz 2.2: Systems of Linear Inequalities in Two Variables

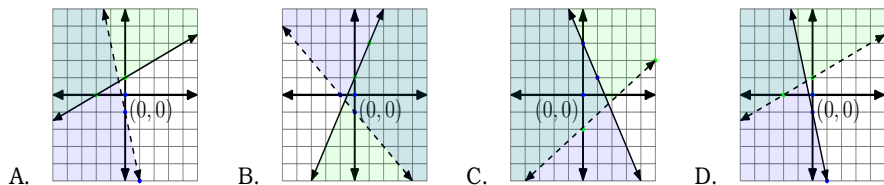
Multiple Choice: Choose the letter that corresponds to the correct answer. Write the answer in your notebook.

- To graph a linear inequality, first graph the plane divider, then pick a test _____ to determine which half-plane to shade as the solution.
A. Point B. Region C. Slope D. y-intercept
- In the graph of $3x - y \geq 5$, the line $3x - y = 5$ is the:
A. Half-plane B. Plane divider C. Shade D. Solution
- A _____ consists of two or more inequalities considered simultaneously.
A. System of linear equations C. System of linear equalities
B. System of linear inequations D. System of linear inequalities
- A _____ of a system of linear inequalities is a pair of numbers that satisfies each inequality of the system.
A. Half-plane B. Plane divider C. Shade D. Solution
- The ordered pair $(-1, 4)$ is a solution to which system of linear inequalities?
A. $\begin{cases} 3x + y > 4 \\ 4x + 3y > 2 \end{cases}$ B. $\begin{cases} x + y < 5 \\ x + 2y < -3 \end{cases}$ C. $\begin{cases} 3x + y < 4 \\ 4x + 3y > 2 \end{cases}$ D. $\begin{cases} x - y > 5 \\ x + 2y \leq -3 \end{cases}$
- Which of the following is NOT a system of linear inequalities in two variables?
A. $\begin{cases} y < 4 \\ 4x + 3y > 2 \end{cases}$ B. $\begin{cases} 3x + y < 4 \\ 4x + 3y = 2 \end{cases}$ C. $\begin{cases} x \geq 2 \\ 4x + y > -2 \end{cases}$ D. $\begin{cases} \frac{2}{3}x - y < 3 \\ y > 1 \end{cases}$
- Which of the following ordered pairs is a solution to the system of linear inequality $\begin{cases} x - 3y \leq -6 \\ x + y < 5 \end{cases}$?
A. $(4, 5)$ B. $(-1, -2)$ C. $(1, -3)$ D. $(-2, 1)$

8. Which of the following graphs shows the solution to the system $\begin{cases} x - 2y < -2 \\ y \leq -4x - 1 \end{cases}$?



9. Which of the following graphs shows the solution to the system $\begin{cases} y \leq 2x + 1 \\ x + y > -1 \end{cases}$?

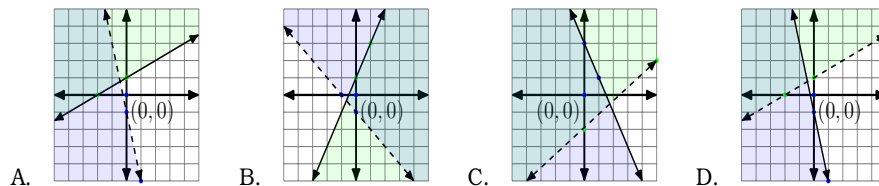


Quiz 2.2: Systems of Linear Inequalities in Two Variables

Multiple Choice: Choose the letter that corresponds to the correct answer. Write the answer in your notebook.

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