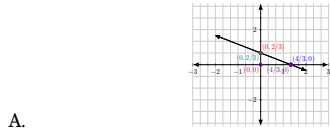


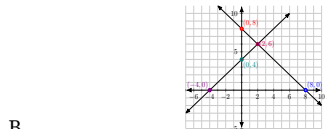
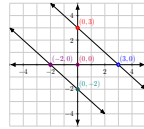
### Quiz 1.8: Graphing Systems of Linear Equations

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

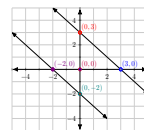
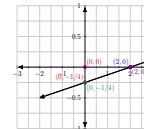
- Which ratio will determine that a system of linear equations is consistent-dependent?  
 A.  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$       B.  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$       C.  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2} = \frac{c_1}{c_2}$       D.  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$
- Which kind of system has the ratios  $\frac{a_1}{a_2}$  and  $\frac{b_1}{b_2}$  unequal?  
 A. Consistent-independent    B. Consistent-dependent    C. Inconsistent-independent    D. Inconsistent-dependent
- What is the first step in graphing systems of linear equations using the intercepts?  
 A. Connect the x-intercepts and y-intercepts.  
 B. Plot the intercepts of both equations on the same Cartesian plane.  
 C. Find the slope.  
 D. Identify the x-intercept and y-intercept of each equation in the system.
- If all the ratios  $\frac{a_1}{a_2}$ ,  $\frac{b_1}{b_2}$ , and  $\frac{c_1}{c_2}$  are equal, then the system of linear equations is:  
 A. Consistent-independent    B. Consistent-dependent    C. Inconsistent-independent    D. Inconsistent-dependent
- Which of the following must be true if a system of linear equations is inconsistent?  
 A.  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$       B.  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$       C.  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2} = \frac{c_1}{c_2}$       D.  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$
- What is the solution to the system of linear equations  $\begin{cases} y = \frac{2}{3}x + 6 \\ y = -\frac{2}{3}x + 6 \end{cases}$  ?  
 A.  $= \{(0, 4)\}$       B.  $= \{(0, 5)\}$       C.  $= \{(0, 6)\}$       D.  $= \{(0, 7)\}$
- Which of the following shows the graph of  $\begin{cases} x - 8y = 2 \\ 3x - 24y = 6 \end{cases}$  ?



C.



D.

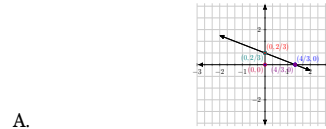


- Which system of linear equations is represented by the graph shown at the right?  
 A.  $\begin{cases} x + y = 3 \\ x + y = -2 \end{cases}$       B.  $\begin{cases} 8 = x + y \\ -4 = x - y \end{cases}$       C.  $\begin{cases} 3x + 6y = 4 \\ 6x + 12y = 8 \end{cases}$       D.  $\begin{cases} x + y = 12 \\ x - y = 8 \end{cases}$
- What kind of system of linear equations is  $\begin{cases} 8x + 2y = 2 \\ y = -4x + 1 \end{cases}$  ?  
 A. Consistent-independent    B. Consistent-dependent    C. Inconsistent-independent    D. Inconsistent-dependent
- Which of the following systems of linear equations is inconsistent?  
 A.  $\begin{cases} x + 3y = 8 \\ x - 3y = 8 \end{cases}$       B.  $\begin{cases} x - 2y = 9 \\ x + 3y = 14 \end{cases}$       C.  $\begin{cases} 2y = 6x - 5 \\ 3y = 9x + 1 \end{cases}$       D.  $\begin{cases} 3x + 5y = 15 \\ 4x - 7y = 10 \end{cases}$

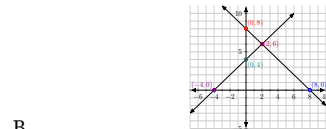
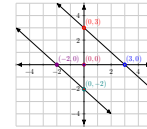
### Quiz 1.8: Graphing Systems of Linear Equations

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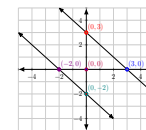
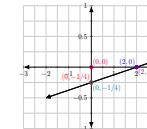
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 A. Consistent-independent    B. Consistent-dependent    C. Inconsistent-independent    D. Inconsistent-dependent
- Which of the following must be true if a system of linear equations is inconsistent?  
 A.  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$       B.  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$       C.  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2} = \frac{c_1}{c_2}$       D.  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$
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D.



- Which system of linear equations is represented by the graph shown at the right?  
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