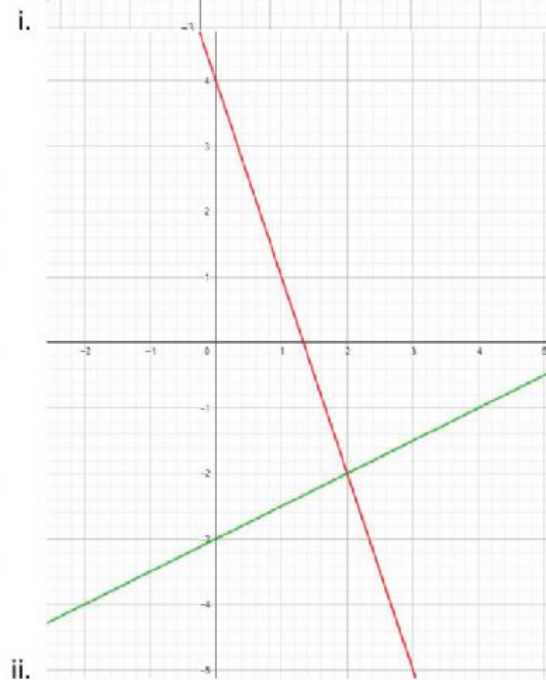
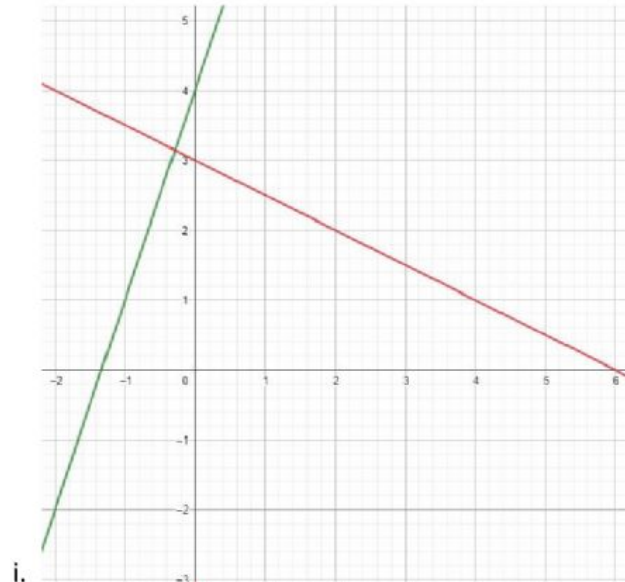


1. Consider the following system of equations.

Line 1: $3x + y = 4$

Line 2: $x - 2y = 6$

a. Choose which graph best exemplifies the given system of equations.



b. Find the solution to the system of equations.

i. $x =$

ii. $y =$

2. Consider the following system of equations.

$$\text{Line 1: } 2x - y = -3$$

$$\text{Line 2: } -6x - 2y = -6$$

a. Put Line 1 into slope-intercept form. What is the slope of Line 1? What is the y-intercept? Slope= y-intercept=

b. Put Line 2 into slope-intercept form. What is the slope of Line 1? What is the y-intercept? Slope= y-intercept=

c. Is $(0, 3)$ a solution to Line 1? Yes No

d. Is $(0, 3)$ a solution to Line 2? Yes No

e. What is the solution to the system of equations? (,)

3. Match the System of Equations with the right solution.

$$\begin{array}{l} -5x - 8y = 17 \\ 2x - 7y = -17 \end{array} \qquad (6, -9)$$

$$\begin{array}{l} -3x + 3y = 3 \\ -5x + y = 13 \end{array} \qquad (-5, 1)$$

$$\begin{array}{l} 7x + 2y = 24 \\ 8x + 2y = 30 \end{array} \qquad (-2, -4)$$

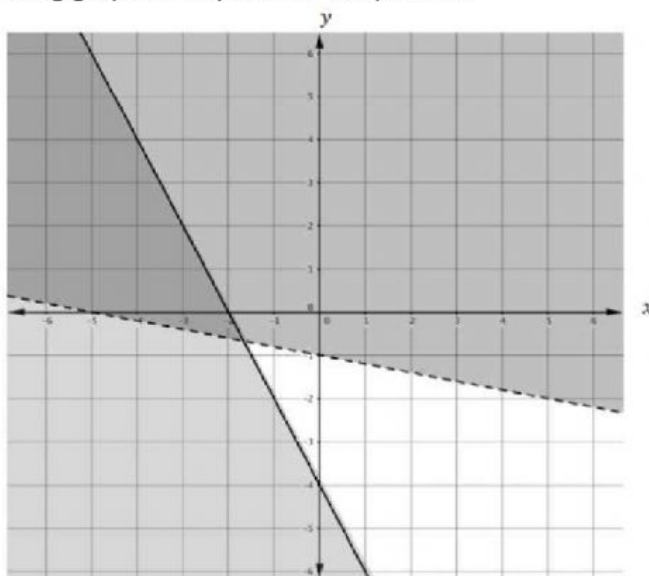
$$\begin{array}{l} 3x - 2y = 2 \\ 5x - 5y = 10 \end{array} \qquad (-3, -2)$$

4. Atlantic High and Boca Raton High are sending their Earth and Space Science classes to the Frost Planetarium. Atlantic High rented and filled 7 van and 12 buses with 672 students. Boca Raton High filled 14 vans and 8 buses with 560 students. Each van and bus carried the same number of students.

a. How many students can a single van carry?

b. How many students can a single bus carry?

5. Consider the following graph of a system of inequalities.



- a. Click on the ordered pairs that represent potential solutions to the system of inequalities.

- i. $(-6, 3)$
- ii. $(-3, 3)$
- iii. $(0, 3)$
- iv. $(0, 0)$
- v. $(6, 0)$
- vi. $(-6, -6)$
- vii. $(-3, -6)$
- viii. $(-6, 6)$

ix. $(-4, 2)$

x. $(3, -3)$