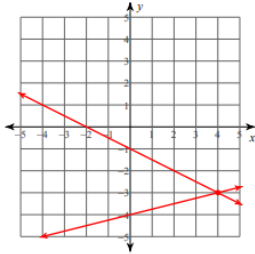


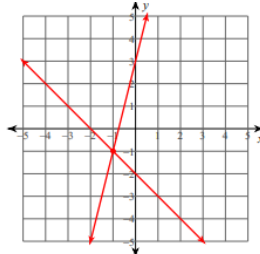
Final Review Systems of Linear Equations

1. Below is a graphical solution to a system of linear equations. **State the solution** to each one.

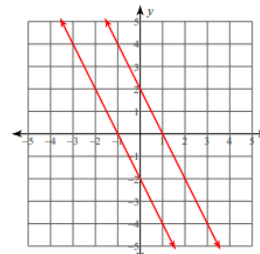
a.



b.

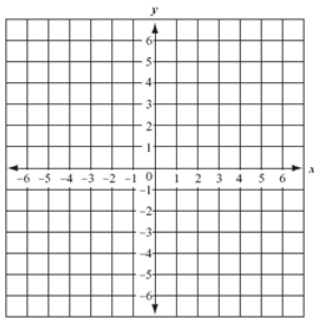


c.



2. Solve each of the following systems of equations by graphing.

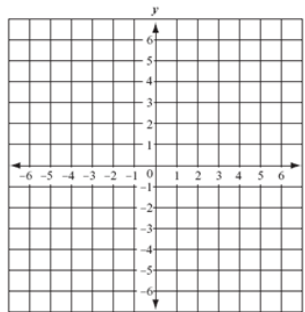
a.



$$y = -\frac{1}{2}x - 2$$

$$y = -\frac{3}{2}x + 2$$

b.



$$2x + y = 2$$

$$x - y = 4$$

3. Solve the following system of equation by **substitution**.

$$y = 4x + 3$$

$$y = -x - 2$$

4. Solve the following system of equation by **elimination**.

$$5x + y = 9$$

$$10x - 7y = -18$$

5. Read the following problem. **Write and solve a system of equations** to answer the question.

Cody's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 2 senior citizen tickets and 8 child tickets for a total of \$78. The school took in \$84 on the second day by selling 4 senior citizen tickets and 8 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.