1. Solve the following system of equations by graphing. If the system is inconsistent or the equations are dependent, say so.

$$x + y = 2$$
$$y - x = 2$$

Use the graphing tool to graph the system.

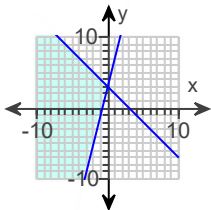Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The system has a single solution. The solution set is { _____ }.
  (Type an ordered pair.)

- B. There are infinitely many solutions and the equations are dependent. The solution set is {(x,y)| x + y = 2}.

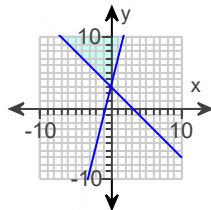- C. The system is inconsistent. The solution set is the empty set.
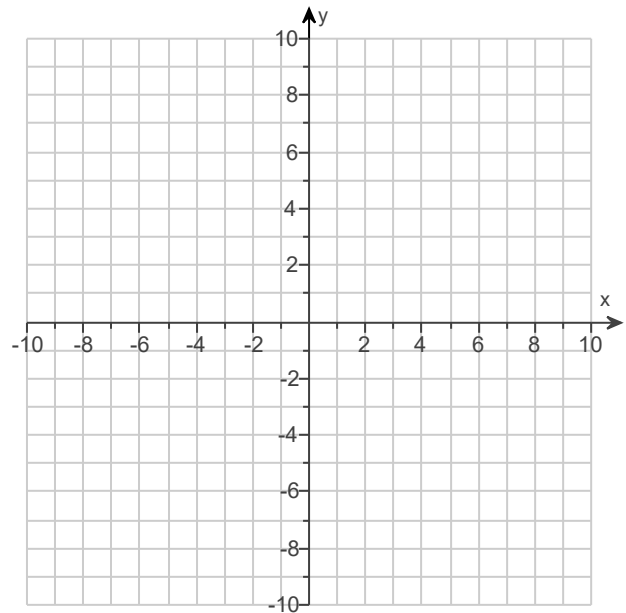
*2. Determine the solution to the system of inequalities.

$$y \geq 4x + 3$$
$$x + y \leq 3$$

- A.
- B.
- C.
- D.

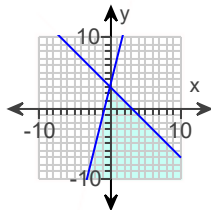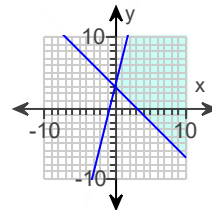3. Solve by the elimination method.

$$x + y = -1$$
$$x - y = 3$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The system has a single solution. The solution set is { _____ }.
  (Simplify your answer. Type an ordered pair.)

- B. There are infinitely many solutions. The solution set is {(x,y)|x + y = -1}.

- C. The solution set is the empty set.

4. Use the elimination method to solve the system of equations.

$$x + 3y = -4$$
$$3x + 2y = 9$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

○ A. The system has a single solution. The solution set is $\{$ _____ $\}$.
(Simplify your answer. Type an ordered pair, using integers or fractions.)

○ B. There are infinitely many solutions. The solution set is $\{(x,y)|3x + 2y = 9\}$.

○ C. The solution set is the empty set.

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5. Solve the following system by the substitution method. Check the solution.

$$6x + 5y = 74$$
$$x = y + 5$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

○ A. The system has a single solution. The solution set is $\{$ _____ $\}$.
(Simplify your answer. Type an ordered pair.)

○ B. There are infinitely many solutions. The solution set is $\{(x,y)|6x + 5y = 74\}$.

○ C. The solution set is the empty set.

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6. Solve the following system by the substitution method. Check the solution(s).

$$2x + 5y = 8$$
$$x - 2y = 4$$

Select the correct choice below and, if necessary, fill in the answer box to complete your answer.

○ A. The system has a single solution. The solution set is $\{$ _____ $\}$.
(Simplify your answer. Type an ordered pair.)

○ B. There are infinitely many solutions and the equations are dependent. The solution set is $\{(x,y)| x - 2y = 4\}$.

○ C. The solution set is the empty set.