

Name

Spiral Review 14

Directions: Show your work for credit. Use your notes and textbook for support

1. Solve the system:

Show your work

$$3x - 2y = 6$$

$$y = x - 3$$

[A] no solution [B] $\left(-3, -\frac{15}{2}\right)$

[C] (1, -2) [D] (0, -3)

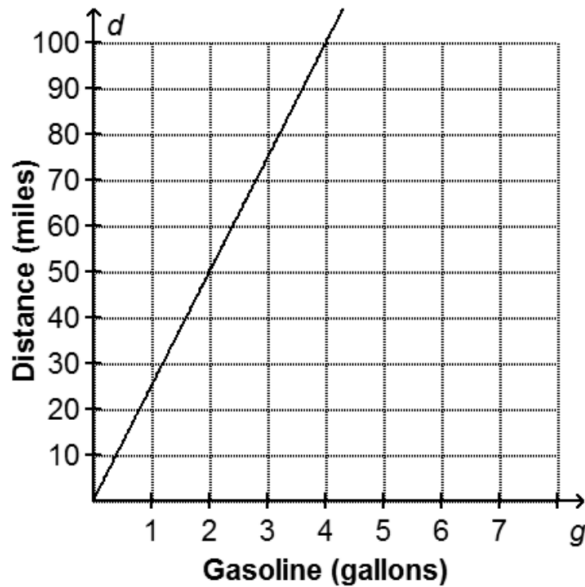
2. How many solutions does the equation $7x - 11 = 5(x - 2) + 2x - 1$ have?

Show your work

- a. Infinitely many solutions
- b. One solution
- c. No solutions
- d. The number of solutions cannot be determined.

3. The graph shows the distance d , in miles, that Joe can drive his car using g gallons of gasoline. What is the rate of change in this situation?

Show your work



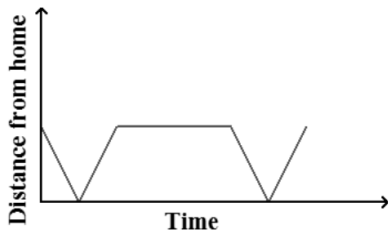
- a. 20 miles per gallon of gasoline
- b. 25 miles per gallon of gasoline
- c. 30 miles per gallon of gasoline
- d. 35 miles per gallon of gasoline



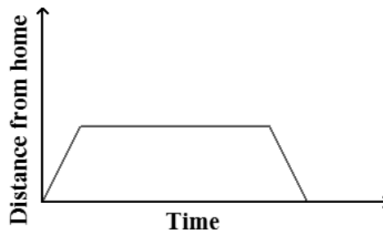
4.

Gloria drives her daughter to school in the morning and then comes back home. She stays home until she has to go to pick up her daughter from school, and then they both return home again. Which graph best shows the situation?

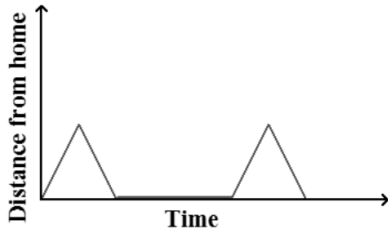
a.



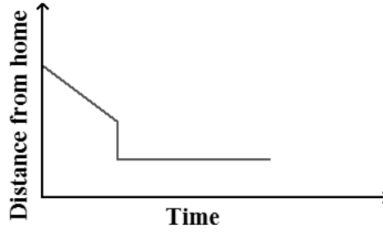
c.



b.



d.



5. Chandler says that the solution of the system of equations $y = -x - 3$ and $y = 3x + 1$ is $(-2, -1)$ because the graphs of the equations intersect at the point $(-2, -1)$.

Identify and correct Chandler's error.

Use writing to explain.

