

Name: _____

1. Given these two points on a line, find the other 5 specifications (“bubbles”) for that line. (1,-4) and (5,6).

2. Given the equation $3x + 2y = 12$ of a line find the other 5 specifications (“bubbles”).

3. Solve this system of equations $\begin{cases} 2x - 3y = -5 \\ 3x + 2y = 12 \end{cases}$

a. Graphically (Approximate the solution.)

b. Algebraically by elimination by substitution.

c. Algebraically by elimination by addition and subtraction.

c. Using Cramer's rule

4. Solve this system of equations

$$\begin{cases} 3x + y - z = 2 \\ x - 2y + z = 0 \\ 4x - y + z = 3 \end{cases}$$

a. Algebraically

b. Using Cramer's Rule

5. A shipment containing a total of 320 cellular phone and radar detectors was destroyed due to a truck accident. On the insurance claim the shipper stated that each phone was worth \$110, each detector was worth \$160, and their total value was \$40,700. How many of each were in the shipment?