

Do Now: #1 from the Practice section of yesterday's packet

Solve each system by elimination.

$$1) \begin{array}{l} \text{A} \\ \text{B} \\ \text{C} \end{array} \begin{array}{l} -x - 5y - 5z = 2 \\ 4x - 5y + 4z = 19 \\ x + 5y - z = -20 \end{array}$$

B+C to eliminate y

$$D \quad 5x + 3z = -1$$

A-B to eliminate y

$$\begin{array}{r} -x - 5y - 5z = 2 \\ -4x + 5y - 4z = -19 \\ \hline \end{array}$$

$$E \quad -5x - 9z = -17$$

D+E to eliminate x

$$\begin{array}{r} -6z = -18 \\ z = 3 \end{array}$$

$$(-2, -3, 3)$$

$$D \quad \begin{array}{l} 5x + 9 = -1 \\ 5x = -10 \\ x = -2 \end{array}$$

$$C \quad \begin{array}{l} -2 + 5y - 3 = -20 \\ 5y - 5 = -20 \\ 5y = -15 \\ y = -3 \end{array}$$

Continuing in the practice section...

$$\begin{array}{l} \text{D} \\ 8) \ 5a + 5b + 5c = -20 \\ \text{E} \ 4a + 3b + 3c = -6 \\ \text{F} \ -4a + 3b + 3c = 9 \end{array}$$

$$\begin{array}{r} 4\text{D} + 5\text{F} \\ 20a + 20b + 20c = -80 \\ -20a + 15b + 15c = 45 \\ \hline 35b + 35c = -35 \\ b + c = -1 \end{array}$$

E+F to eliminate a

$$6b + 6c = 3$$

$$\text{E} \ 2b + 2c = 1$$

$$b + c = \frac{1}{2}$$

no solution

Work on questions 3, 4, 13, and 15. Upload your work to Google Classroom when you are done.

Homework 01-09

$$\textcircled{2} (2, -3, -2)$$

$$\textcircled{3} (2z-1, z, z)$$

$$\textcircled{4} (-1, 1, 5)$$

$$\textcircled{5} (2z+1, 3z+2, z)$$