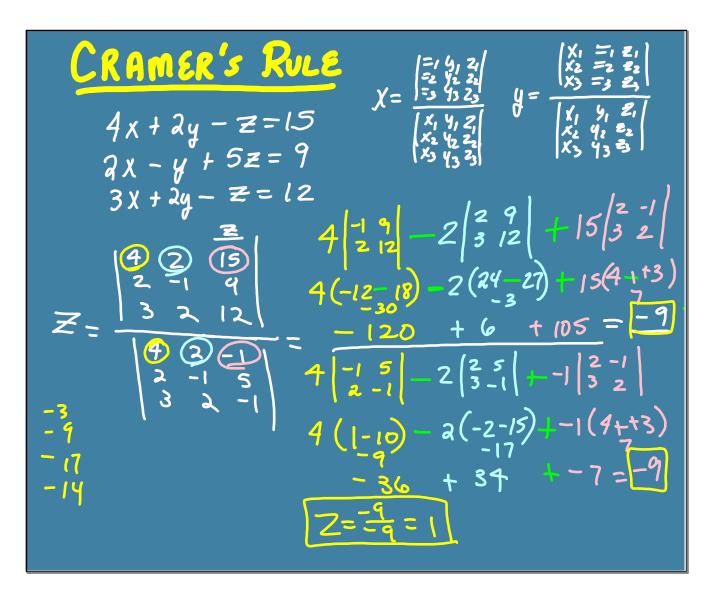
3-VARIA BLE SYSTEMS  $\frac{m_{ination}}{X + 8y + 2z} = -12$ Elimination -3X+ 4+7= -38 -4x - 3y + 6z = 47 $\begin{array}{r}
-\frac{3}{x} - \frac{3}{y} - 6z = 36 \\
= 36 \\
= 36 \\
= 36 \\
= 36 \\
= 36 \\
= 36 \\
= 36 \\
= 36 \\
= 36 \\
= 35 \\
= 35 \\
= 95 \\
= 95 \\
\end{array}$ T -234 + Z = 74 (A) Sub in y=-3 -23y+z=74-35y-2z=95 -23(-3) + Z = 7469 + Z = 74Z = 5 (5) = -12X-24+10=-12 1-14=-12 (a,-3,5) X= 2

3-Variable Elimination Group 2 of the equations & eliminate a variable. () 2) Group a different pair of equations + eliminate the same vanable. 3) Group the 2 resulting equations from steps 1+2 + eliminate a variable. 9) Sub answer in a 2-variable eq. to find a 2nd variable. 5) Sub both answers m a 3-variable eg. v solve.



 $det\left(\begin{bmatrix} = - & - \\ - & - & - \end{bmatrix}\right) \qquad \begin{array}{l} \chi = # \text{ of } sch s \\ y = # \text{ of } chans \\ z = # \text{ of } love seals \end{array}$ Calculator x + 2y det([==7])DOO + Z = (200