

$$A_2 = \begin{pmatrix} 2 & 14 & 2 \\ 1 & 4 & 5 \\ 3 & 9 & -2 \end{pmatrix}$$

$$|A_2| = 2(-8 - 45) - 14(-2 + 15) + 2(9 - 12) \\ = -82$$

$$A_3 = \begin{pmatrix} 2 & 3 & 14 \\ 1 & 2 & 4 \\ 3 & 1 & 19 \end{pmatrix}$$

$$|A_3| = 2(38 - 4) - 3(19 - 12) + 14(1 + 6) \\ = 145$$

$$x = \frac{|A_1|}{|A|} = \frac{-315}{5} = -63$$

$$y = \frac{|A_2|}{|A|} = \frac{-82}{5} = -16.4$$

$$z = \frac{|A_3|}{|A|} = \frac{145}{5} = 29$$