

Quiz 9

$$X = \begin{vmatrix} 3 & -5 & 7 \\ 1 & 2 & 9 \\ 1 & 3 & 0.3 \end{vmatrix}$$

$$Y = \begin{vmatrix} 2 & 4 & 18 \\ 3 & -5 & 7 \\ 1 & 3 & 0.3 \end{vmatrix}$$

84 Since Y is nothing but the 1st row of X swapped with row 2 and multiplied by 2, we know that by the properties of determinants on row operations that $X = -\frac{1}{2} Y$

$$\begin{vmatrix} 3 & -5 & 7 \\ 1 & 2 & 9 \\ 1 & 3 & 0.3 \end{vmatrix} = -\frac{1}{2} \begin{vmatrix} 2 & 4 & 18 \\ 3 & -5 & 7 \\ 1 & 3 & 0.3 \end{vmatrix}$$