$$A = \begin{bmatrix} 2 & 2 & 1 & 7 \\ -1 & 2 & 0 & 3 \\ 3 & 2 & 1 & 8 \\ 4 & 2 & 0 & 8 \end{bmatrix}$$

Pivot = 2

$R_2' = 2R_2 + R_1$

$R_3' = \frac{2}{3}R_3 - R_1$

$R_4' = \frac{1}{2}R_4 - R_1$

$$= \begin{bmatrix} 2 & 2 & 1 & 7 \\ 0 & 6 & 1 & 13 \\ 0 & -2/3 & -1/3 & -5/3 \\ 0 & -1 & -1 & -3 \end{bmatrix}$$

Pivot = 6

$R_3'' = 9R_3 + R_2$

$R_4'' = +6R_4 + R_2$

$$= \begin{bmatrix} 2 & 2 & 1 & 7 \\ 0 & 6 & 1 & 13 \\ 0 & 0 & -2 & -2 \\ 0 & 0 & -5 & -5 \end{bmatrix}$$

Pivot = -2

$R_4''' = \frac{2}{5}R_4 - R_3$

$$\begin{bmatrix} 2 & 2 & 1 & 7 \\ 0 & 6 & 1 & 13 \\ 0 & 0 & -2 & -2 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

Pivot = 0

Pivot value can't be 0 & there is no Row exchange

$\therefore$ Rank = 3.