

Find the determinant of the matrix

$$M = \begin{bmatrix} 5 & -6 & 8 \\ 0 & -5 & -7 \\ 0 & 0 & 1 \end{bmatrix}.$$

$$\det(M) = \boxed{\phantom{000}}$$

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$$M = \begin{bmatrix} 5 & -6 & 8 \\ 0 & -5 & -7 \\ 0 & 0 & 1 \end{bmatrix}.$$

$$\det(M) = \boxed{-25}$$