

Time limit: 15 minutes.

No calculators or other aids.

You may retake one check at any office hours, once per day.

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Reduce the following matrix to Reduced Row Echelon Form.

$$\begin{pmatrix} 12 & -1 & 1 & 0 & 8 \\ -6 & 1 & -1 & 0 & -5 \\ 0 & -1 & 1 & 9 & -4 \end{pmatrix}$$

Answer:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & -1 & 0 & -2 \\ 0 & 0 & 0 & 1 & -\frac{2}{3} \end{pmatrix}$$