

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.

$$\begin{pmatrix} 2 & 0 & -2 & 3 & 0 \\ 2 & 9 & 1 & 6 & -1 \\ 0 & 6 & 2 & 3 & 0 \end{pmatrix}$$

Answer:

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