Time limit: 15 minutes.
No calculators or other aids.
You may retake one check at any office hours, once per day.

Reduce the following matrix to Reduced Row Echelon Form.

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

**Answer:**

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