

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.

$$\begin{pmatrix} 16 & 24 & 6 & -24 & 8 \\ -4 & -6 & 0 & 6 & -12 \\ 8 & 12 & 2 & -12 & 12 \end{pmatrix}$$

Answer:

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