

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.

$$\begin{pmatrix} 4 & 2 & 0 & 0 & 0 \\ 0 & 0 & -2 & 3 & -8 \\ -8 & -4 & -4 & 5 & -14 \end{pmatrix}$$

Answer:

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