The rules for this quiz are as follows:

- **Write your name in the upper-right hand corner of the quiz.**
- This quiz will last for 10 minutes.
- Show **ALL** work for partial/full credit. This includes any definitions, mathematics, figures, etc.
- No collaboration of any kind is allowed on the quiz.
- The quiz is closed book and closed notes.
- Calculators are allowed on the quiz.

1. (10 points) Perform Gaussian elimination with partial pivoting followed by backward substitution to solve the following system:

\[
\begin{pmatrix}
2 & 1 & 1 & 5 \\
4 & -6 & 0 & 2 \\
-2 & 7 & 2 & 9
\end{pmatrix}
\]