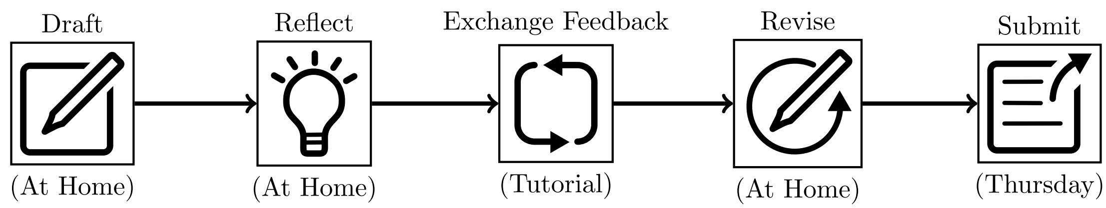
MAT224 **Due: Week 3 Tutorial (draft), January 25 (final)**
PAR 2 **Name:**____________________________

The PAR Process



Problem Statement

Suppose $\vec{v}_1, \vec{v}_2, \vec{v}_3, \vec{v}_4 \in \mathbb{R}^3$. Let $\mathcal{V} = \{\vec{v}_1, \vec{v}_2, \vec{v}_3, \vec{v}_4\}$ and let $X = [\vec{v}_1|\vec{v}_2|\vec{v}_3|\vec{v}_4]$ be the matrix whose columns are $\vec{v}_1, \vec{v}_2, \vec{v}_3, \vec{v}_4$. Suppose further that every subset $\mathcal{Y} \subset \mathcal{V}$ of *size two* is linearly independent. Explain what form(s) $\mathrm{rref}(X)$, the reduced row echelon form of X, must take in this case.

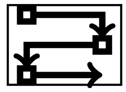
Hint: you won't be able to pin down exact numbers for every entry of $\mathrm{rref}(X)$*, but you might know things like whether the entry can be zero or not, etc.*

Reflection

Turn the page and check off the icons for things you think you did well; circle the icons for things you would like feedback on.

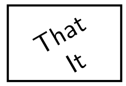
Feedback Provided By:____________________________

Suggestions Communication **Strengths**

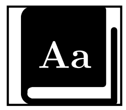


Show All Steps

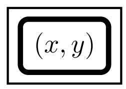
Explain Why,
Not Just What



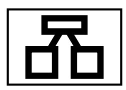
Avoid Pronouns



Use Correct
Definitions

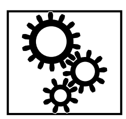


Define Variables,
Units, etc.

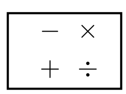


Create Diagrams

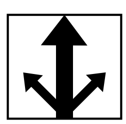
Suggestions Accuracy **Strengths**



Correct Setup

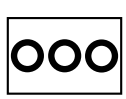


Accurate Calculations



Solve Multiple Ways

Answer Reasonable



Other
(Write Below)