

$$\text{Let } A = \begin{bmatrix} 1 & 0 & 3 & 2 \\ 2 & 1 & 0 & 4 \\ 3 & 2 & 2 & 0 \\ 0 & 0 & 3 & 4 \end{bmatrix} \text{ and } B = \begin{bmatrix} 1 & 2 & 0 & 4 \\ 2 & 1 & 3 & 3 \\ 3 & 1 & 0 & 2 \\ 0 & 5 & 0 & 3 \end{bmatrix}$$

1. Find $\det(A)$ by expanding along the first row
2. Find $\det(A)$ by expanding along the second column
3. Find $\det(B)$
You can pick the row or column to expand along