

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

What property of determinants do your calculations demonstrate?
5. Calculate $\operatorname{det}\left(A^{T}\right)$ and $\operatorname{det}\left(B^{T}\right)$

What property of determinants do your calculations demonstrate?

