

## Additional Activities: Think-Share-Pair-Compare 2.1

1. In your notes, create a  $2 \times 3$  matrix  $A$  and then write down  $A^T$ , the transpose. Next, what can you say about the size of  $B$  if  $A$  acts by left multiplication on  $B$  (i.e.  $AB$  is defined).
2. Is there a difference between associativity and commutativity? Respond on our usual pollev if you have tech:
  - a) yes and I have a good reason why
  - b) yes but I am unsure of why
  - c) no but I am unsure of why not
  - d) no and I have a good reason why not
3. Examine <https://www.geogebra.org/m/qzvdaavn>. As you drag each slider in one of the matrices  $A$  or  $B$ , why does it impact the product in the way it does?
4. Lastly, review 2.1 and the fill-in guide, look at upcoming activities or chat until I bring us back together