

## Additional Activities: Think-Share-Pair-Compare 6.1

1. Does a rotation matrix have column vectors that are orthogonal and also length 1 (unit length)? Respond on our usual pollev if you have tech:
  - a) yes
  - b) no
2. Revisit <https://www.geogebra.org/m/kharvug8>. Modify the matrix to represent those with column vectors that are orthogonal and hit enter. Try a number of different such matrices. Is there anything in the figure or property of it that is preserved?
3. Next, in the same GeoGebra, modify the matrix to represent those whose column vectors both have unit length and are also orthogonal vectors and hit enter. Try a number of examples. Is there anything that is preserved? Write your group's response on a board.
4. Lastly, review 6.1 fill-in guide items, look at or work on upcoming items, or chat until I bring us back together