

## Additional Activities: Think-Share-Pair-Compare 1.3

1. Explore <https://www.geogebra.org/m/Dq2A7aRv>  
What do the sliders and visualization show us?
2. What is the difference between a linear combination and the span of a set of vectors? Discuss your thoughts with your neighbors, select one letter response below. Respond on our usual pollev if you have tech:
  - a) there is no difference and I can explain why
  - b) there is no difference but I'm unsure about it
  - c) there is a difference but I'm unsure about it
  - d) there is a difference and I can explain why
3. What are the weights of  $5 \begin{bmatrix} 1 \\ 1 \end{bmatrix} - 3 \begin{bmatrix} -2 \\ 4 \end{bmatrix}$ ?
4. What is  $\begin{bmatrix} 1 \\ 0 \end{bmatrix} + t \begin{bmatrix} 0 \\ 1 \end{bmatrix}$  geometrically, for  $t$  varying over  $\mathbb{R}$ ?  
Discuss and have one person sketch on a board.
5. Lastly, review 1.3 fill-in guide items, look at or work on upcoming items, or chat until I bring us back together