

HW 2

- ① Find the magnitude of each of these 5 vectors:

$$\vec{i}, -4\vec{j}, \vec{k} + \vec{j}, \langle 7, 2, 1 \rangle, \langle -3, 8, 6 \rangle.$$

- ② "I went 30 miles west, then 50 miles north, then 1 mile up." Describe the net displacement of the above path with a vector. (You decide how to define the coordinate system.)

- ③ Rotate $-2\vec{j}$ 60° clockwise.

- ④ Find a vector of length 5 parallel to your solution to ③.