

Name: \_\_\_\_\_

1.  $[-2 \ 2 \ 4] \times [0 \ 2 \ -1]$
2.  $\| [4 \ -3 \ 2] \|$
3. What is the angle between the following two vectors (in radians)?  
 $[-1 \ 3 \ 3], [3 \ -4 \ -2]$
4.  $\| [0 \ 0 \ -1] \|$
5. What is the relationship between the following two vectors?  
 $[2 \ 4 \ -1], [-2 \ -5 \ -3]$ 
  - (a) They point in the same direction
  - (b) They point in opposite directions
  - (c) They are perpendicular
6.  $[0 \ -3 \ 3] + [-2 \ 0 \ -5]$
7.  $[-4 \ 0 \ -5] \cdot [-1 \ -5 \ 0]$
8. Normalize  $[-3 \ 0 \ 3]$