

## Trigonometric Bell Quiz 2

Question 1)

$$a) \langle 1, 1, 1 \rangle \cdot \langle 3, -2, -1 \rangle = 3 - 2 - 1 = 0$$

$$b) \langle 1, 3 \rangle \cdot \langle 2, -4 \rangle = 2 - 12 = -10$$

Since product is negative  
the angle is obtuse

Question 2)

| i | j  | k  |                                                                                                   |
|---|----|----|---------------------------------------------------------------------------------------------------|
| 0 | 1  | -1 | $(1 \cdot 0 - 1 \cdot 1) \cdot (-1) = (0 - 1) \cdot (-1)$<br>$= (1) + (0) \cdot (-1) = (1 - 1) =$ |
| 1 | -1 | 0  | $= -1 - 1 + (-1) = -1j - 1j - 1k =$                                                               |