

Purple vector = <2,0,2>, P

Cyan vector = <0,2,2>, C

 $P dot C = |P|^*|C|^*cos(\theta)$ 

P dot C = (P1\*C1) + (P2\*C2) + (P3\*C3) = (2\*0) + (0\*2) + (2\*2) = 4

|P| = 8^1/2

|C| = 8^1/2

|P|\*|C| = 8

Final equation:

 $4 = 8\cos(\theta)$ 

 $\frac{1}{2} = \cos(\theta)$ 

 $Arccos(1/2) = \theta = \pi/3 \text{ rad}$ 

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