Dawson College: Linear Algebra (COMPUTER SCIENCE): 201-NYC-05-S9: Fall 2022: Quiz 9	name:

Question 1. Let $A =$	(0, -2, 4)	B = (5, -1)	-5,3), a	and $P =$	(k,k,k)).
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- a. (4 marks) Find k when the vector from A to B is perpendicular to the vector from A to P.
- b. (4 marks) Find a vector of length 3 oppositely directed to \vec{AB} .

Question 2.(4 marks) Let $||\vec{u}|| = 3$, \vec{v} be a unit vector, and the angle between \vec{u} and \vec{v} be 60 degrees. Find $||5\vec{u} - 7\vec{v}||$