Homework H.4.S

Given: Particle P (of mass m) travels in the x-y plane with a velocity of \vec{v}_P .

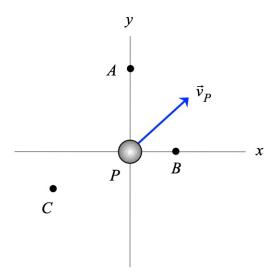
Find: For this problem:

(a) The angular momentum of P about point A, \vec{H}_A .

(b) The angular momentum of P about point B, \vec{H}_B .

(c) The angular momentum of P about point C, \vec{H}_C .

Write your answers as vectors.



Use the following parameters in your analysis: m=5 kg, $\vec{v}_P=\left(20\hat{i}+15\hat{j}\right)$ m/s and the following (x,y) coordinates for points A, B, C and P: A:(0,1.2) m, B:(0.9,0) m, C:(-0.4,-0.3) m, and P:(0,0) m.

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