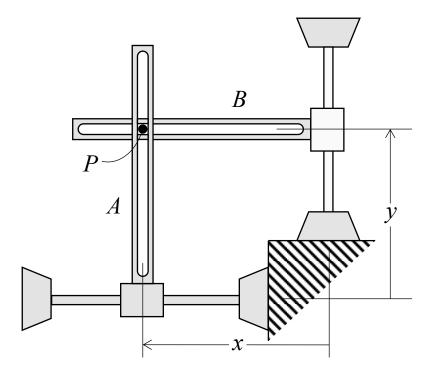
Homework H1.A

Given: Pin P moves within slots cut into links A and B. The horizontal position of link A is given by $x=2\alpha+\beta t^2$, whereas the vertical position of link B is given by $y=3\alpha-\gamma t^3$, where t is given in s, x and y are given in mm, $\alpha=5$ mm, $\beta=1$ mm/s² and $\gamma=1$ mm/s³.

Find: Determine the velocity and acceleration of P at t=3 s.



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