

Particle Kinematics n-t Coord's Non-Circular: Example Problem 2 (Total Accel Given)

A bead slides along a path described by the function $y = -(1/4)x^2 + x$ m. At the position $x = 4$ m, the particle's acceleration vector is known to be $\vec{a} = [8 \text{ m/s}^2 @ -90^\circ]$. Write, as a Cartesian or polar vector, the particle's velocity, \vec{v} .



