

# Comments on Some Conceptual Questions

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## 2D Kinematics 1

A puck on ice has been moving north with constant speed 10 m/s. At time  $t = 0$ , it experiences a constant acceleration of  $5 \text{ m/s}^2$  in the eastward direction for a period of two seconds. After the two seconds, the puck is moving northeast with a speed greater than 10 m/s.

- ▶ Since the velocity and acceleration are perpendicular, why does the puck speed up?

## 2D Kinematics 1 picture

