Follow Up

A rectangular loop (sides = a,b, resistance = R, mass = m) coasts with a constant velocity v_0 in +x direction as shown. At t = 0, the loop enters a region of constant magnetic field B directed in the -z direction.

What is the velocity of the loop when half of it is in the field?

Which of these plots best represents the velocity as a function of time as the loop moves form entering the field to halfway through ?



