Particle F=ma (n-t): Example Problem 1

A 10 kg pendulum swings in a vertical plane from a slender, massless, 5 m long cord. At the position shown, the pendulum has a speed of 3 m/s. Please determine: (a) The tension in the cord. (b) The acceleration along the path.

Mass = 10 kg
Velocity, v = 3 m/s