

**Part A: Statics (3.0 points)****A.1** (0.5 pt)

$$\Delta y =$$

**A.2** (0.5 pt)

$$\Delta W =$$

**A.3** (2.0 pt)

$$H =$$

**Part B: Dynamics (5.5 points)****B.1** (2.5 pt)

$$t_c =$$

$$t_c =$$

**B.2** (2.5 pt)

$$A =$$

$$B =$$

**B.3** (0.5 pt)

$$v_{\min} =$$

**Part C: Energetics (1.5 points)****C.1** (1.5 pt)

$$Q =$$