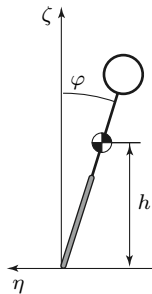
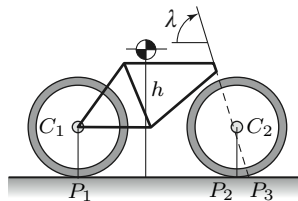


(a) Top view



(b) Rear view



(c) Side view

Figure 4.5: Schematic views of a bicycle. The steering angle is δ , and the roll angle is φ . The center of mass has height h and distance a from a vertical through the contact point P_1 of the rear wheel. The wheelbase b is the distance between P_1 and P_2 , and the trail c is the distance between P_2 and P_3 .