



**FIGURE P2-12**

Problem 2-31 Bicycle brake caliper assembly

2-31 Figure P2-12 shows a bicycle brake caliper assembly. Sketch a kinematic diagram of this device and draw its equivalent linkage. Determine its mobility under two conditions.

- Brake pads not contacting the wheel rim.
- Brake pads contacting the wheel rim.

Hint: Consider the flexible cables to be replaced by forces in this case.