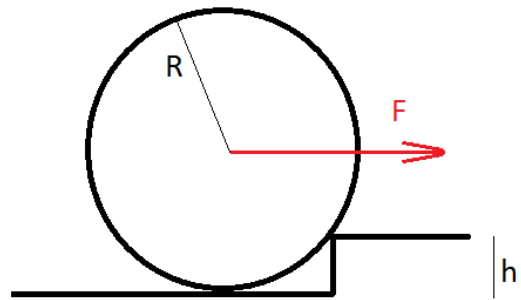


9-2)

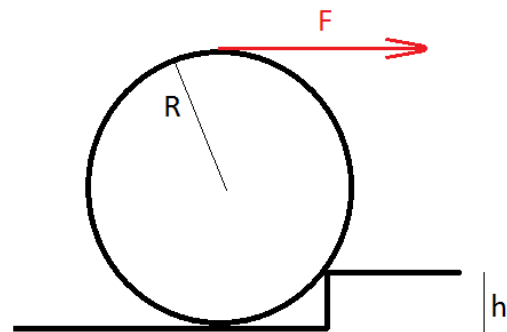
Here's a classic:

Consider a wheel butted up against a kerb of height  $h$ . We want to raise the wheel up over the kerb by applying a horizontal force,  $F$ , to the center of the wheel.

- a) What is the minimum force necessary?



- b) Suppose instead the force were applied to the top of the wheel. What would be the minimum force in that case?



NOTE: There is a slight complication here. We'll discuss it after you turn in your solution.