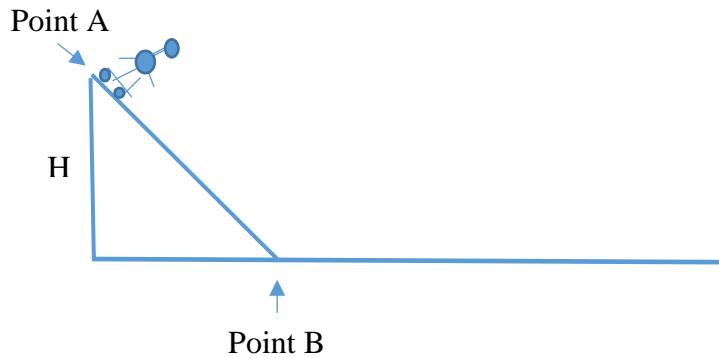


### Pre-Activity Exercise

1. A skateboarder skates down from the top of a flat-bank, Point A, in the diagram below. Calculate the velocity of the skateboarder as they arrive at the bottom of the flat-bank, Point B. (Assume the mass of the skateboarder is 60 kg. The height of the pipe, H, is 1.0 m.)



2. How do you calculate the impact force if a skateboarder falls to the ground from the top of the quarter pipe (1.0 m height)?