

1-7. The ramp is 1 m from the ground, and a marble ball slides off the ramp with a normally distributed horizontal velocity  $v \sim N(5, 0.5^2)$  m/s. Find the probability that the range  $L$ , where the marble hits the ground, is smaller than 2 m?

**Solution:**  $\Pr\{L < 2\} = 0.13$

