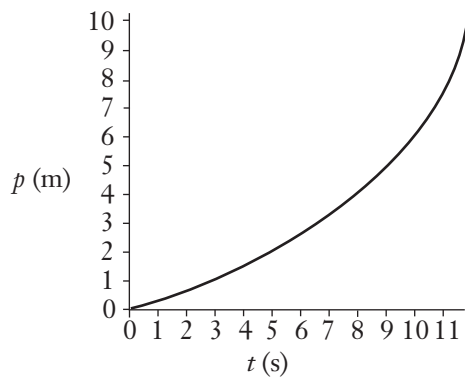


AP Physics 1 Review Questions

Integrating Content, Inquiry and Reasoning

1. Consider a ball rolled or kicked up a hill at a constant velocity. Draw $p-t$ and $v-t$ graphs that represent the ball's motion.
2. Consider the same ball rolled down the hill from an initial, stationary state. Draw $p-t$ and $v-t$ graphs that represent the ball's motion.
3. What is the difference between instantaneous and average velocity?
4. Calculate the instantaneous velocity at 5 seconds as well as the average velocity from 8 to 11 seconds using the graph shown below.



5. What information, if any, can be gathered from the areas under curves on $p-t$, $v-t$, and $a-t$ graphs?