



3. On a hot summer day several swimmers decide to dive from a railroad bridge into the river below. The swimmers step off the bridge and hit the water approximately 1.5 s later.
  - a. How high is the bridge?
  - b. How fast are the swimmers moving when they hit the water?
  
  
  
  
  
  
  
  
  
  
4. An astronaut on the Moon drops a rock straight downward from a height of 0.95 m. The acceleration of gravity on the Moon is  $1.62 \text{ m/s}^2$ .
  - a. What is the speed of the rock when it lands?
  - b. How long does the rock take to hit the ground?