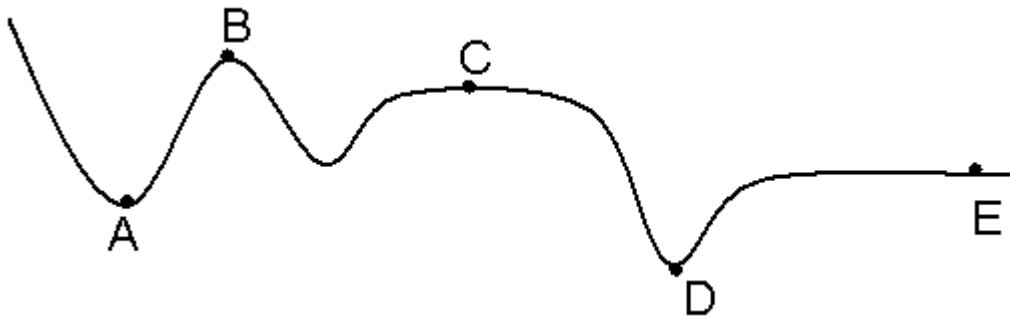


## ROLLERCOASTER REVIEW



1. Consider the rollercoaster shown above. At which of the indicated points does the rollercoaster have the greatest kinetic energy?
2. Consider the rollercoaster shown above. At which of the indicated points does the rollercoaster have the greatest gravitational potential energy?
3. How can you determine the gravitational potential energy?
4. Consider the rollercoaster shown above. If Point A and Point E are at the same elevation, what may be concluded and why? Assume a real rollercoaster with small frictional losses.
5. Consider the rollercoaster shown above. At which of the indicated points does the rollercoaster have the greatest thermal energy?
6. By reviewing *your* rollercoaster lab, what can you conclude about the gravitational and kinetic energies?
7. By reviewing the rollercoaster lab, why does the graph for total energy look the way it does?