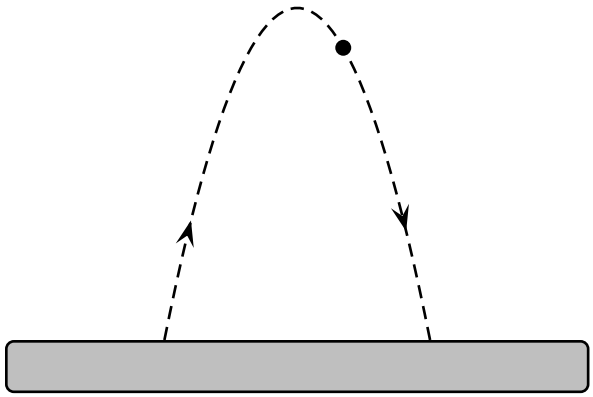
A ball is thrown and follows the parabolic path shown. Air friction is negligible. At the tip-pity top of its path its velocity is momentarily minimal.



What is its acceleration at the highest point.

A) The acceleration at the top is 9.8 m/s^2 down.

B) The acceleration at the top is 0 m/s^2.

C) The acceleration at the top is 9.8 m/s^2 up.

D) Since the ball is in free-fall, its acceleration is undetermined.

Near the surface of the Earth, for all practical purposes the gravitational acceleration is constant, and equal to 9.8 m/s^2 in the downward direction.

Answer **A**.

02.05-08˙Acceleration˙at˙the˙Top 2004-3-24