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/s² in the downward direction.

Answer A.

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