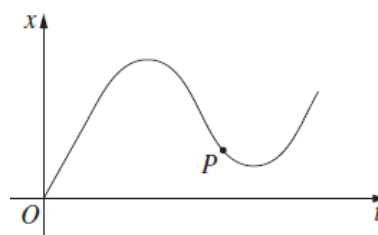




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- 2014 9** The graph shows the displacement x of a particle moving along a straight line as a function of time t . Which statement describes the motion of the particle at the point P ?

**1**

- (A) The velocity is negative and the acceleration is positive.
- (B) The velocity is negative and the acceleration is negative.
- (C) The velocity is positive and the acceleration is positive.
- (D) The velocity is positive and the acceleration is negative.

A

At P : decreasing ($f'(x) < 0$), and concave up ($f''(x) > 0$)

\therefore velocity is negative and acceleration is positive.

State Mean:
0.58

* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.