Assume the position

A particle's position is given by the function

$$x(t) = 4t^3 - 3t^2$$

- 1. Where is the particle a time t = 3 s?
- 2. What is the equation for the velocity?
- 3. What is the velocity at t = 3 s?
- 4. What is the equation for the acceleration?
- 5. What is the acceleration at t = 3 s?
- 6. Which of the graphs to the right would be consistent with the acceleration?

