

10. The velocity (both magnitude and sign) is determined by the slope of the x versus t curve, in accordance with Eq. 2-4.
- (a) The armadillo is to the left of the coordinate origin on the axis between $t = 2.0$ s and $t = 4.0$ s.
 - (b) The velocity is negative between $t = 0$ and $t = 3.0$ s.
 - (c) The velocity is positive between $t = 3.0$ s and $t = 7.0$ s.
 - (d) The velocity is zero at the graph minimum (at $t = 3.0$ s).