In a moment of boredom, I buy a Samick Sage Takedown bow on Amazon (#1 best seller), and I fire an arrow straight up (this is a bad idea, don't do this). At the instant the arrow leaves the bow, it is traveling 125mph.

Which statement is most accurate?

- (a) After **1 hour**, the arrow will be **125 miles** up.
- (b) After .1 hours, the arrow will be $.1 \times 125 = 12.5$ miles up.
- (c) After .00001 hours (about .03 seconds), the arrow will be $00001 \times 125 = .00125$ miles up (about 6 feet).
- (d) In any single instant, the arrow is in only one place, so it is not moving. So in 1 hour, it will still be in the same place.