

1.

Go on classes v2 and download the data analysis RanWalks_data.pdf, look at the data. Looking at the data for the standard deviation σ for increasing time $t = 3, 6, 10$, what do you infer about its behavior in time?

- A. σ stays constant
- B. σ increases
- C. σ decreases

2.

Make a sketch (here below) of the variance σ^2 as a function of time using the values at time $t = 3, 6, 10$ extracted from our data (in RanWalks_data.pdf).

3.

How do you think the variance changes in time?

- A. stays constant
- B. increases as t^2
- C. linearly increases
- D. increases as \sqrt{t}
- E. exponentially increases