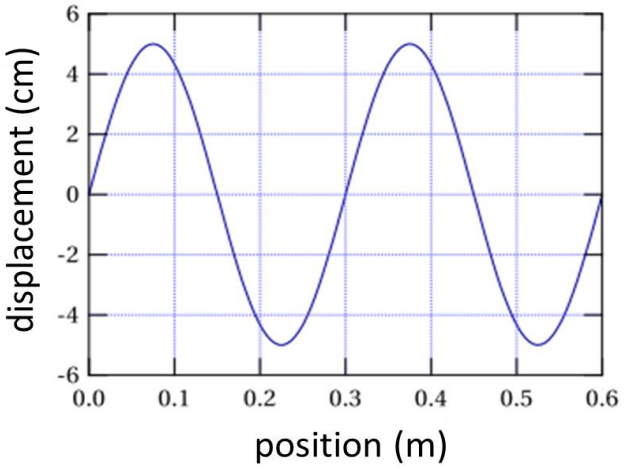
SCIENCE 2021/2022 **HOMEWORK #11**

PLEASE SUBMIT YOUR WORK THROUGH GOOGLE CLASSROOM

1. **Review Slides 4-7 (that introduce wave parameters) of Lecture 11.**

2. **The graph below shows a *snapshot* of a wave travelling along a thin rope.** X-axis represents position along the rope; Y-axis shows displacement of the corresponding "fragment" of the rope (undisturbed rope would look like a straight line at Y=0).



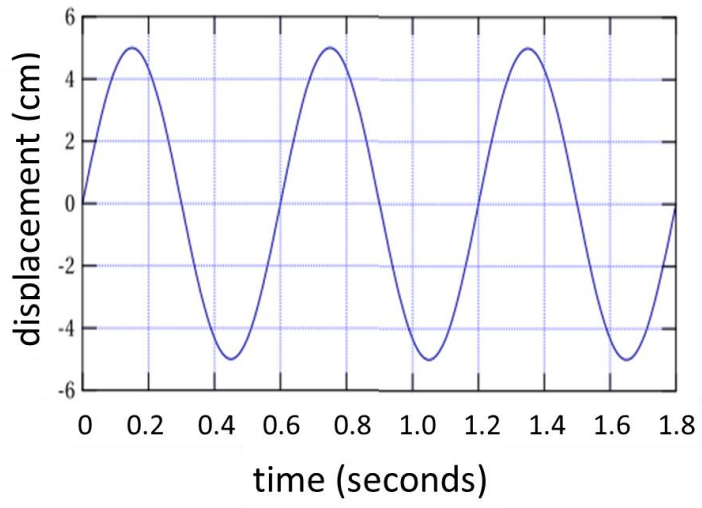
<u>Measure</u> the following wave parameters (pay attention to units!):

A. Amplitude=

B. Wavelength=

C. How many full waves (cycles) are shown?

The second graph shows the same wave, but now in *time domain* (tracking how a particular "fragment" vibrates in time)**.**



<u>Measure:</u>

D. Period=

E. How many full waves (cycles) are shown?

<u>Calculate frequency:</u>

F. Frequency=