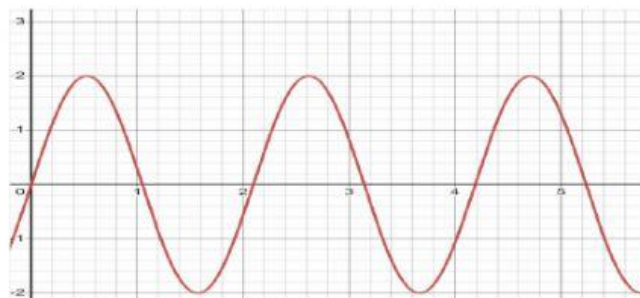
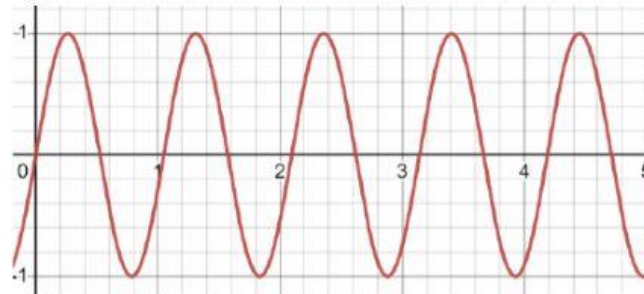


Wave Properties and Graphs

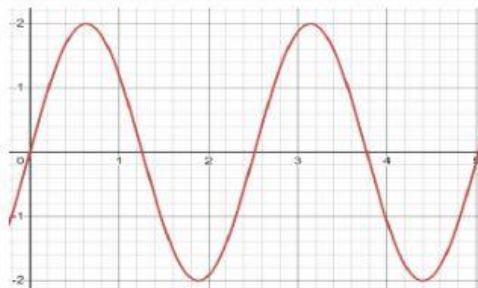
1. As the wavelength of a wave in a uniform medium increases, its **speed** will _____.
 - a. decrease
 - b. Increase
 - c. Remain the same
2. As the wavelength of a wave in a uniform medium increases, its **frequency** will _____.
 - a. Decrease
 - b. Increase
 - c. Remain the same
3. What is the **speed** of a wave that has a frequency of 200 Hz and a wavelength of 0.50 m? _____
4. The period of a wave is 0.0300 seconds. It travels at a velocity of 10.0 m/s. Determine the frequency and the wavelength of the wave.
 - a. Frequency _____
 - b. Wavelength _____
5. A wave having a wavelength of 4.0 meters and an amplitude of 2.5 meters travels a distance of 8.0 seconds. Determine the frequency and the period of the wave.
 - a. Frequency _____
 - b. Period _____
6. Assuming the x and y-axis are in cm, what is the wavelength and amplitude of the wave pictured below?
 - a. Wavelength _____
 - b. Amplitude _____



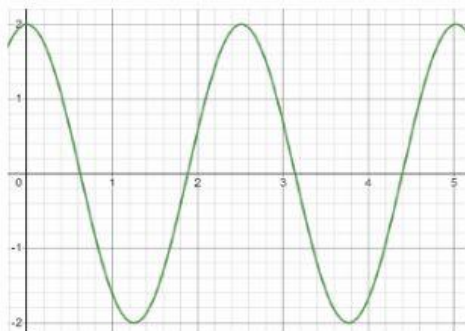
7. Assuming the y-axis is cm and the x-axis is s, what is the frequency, period, and wave speed of the wave pictured below?
- Frequency _____
 - Period _____
 - Wave speed _____



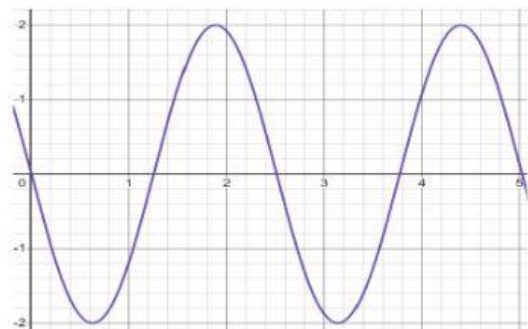
8. Identify the correct velocity graph that corresponds to the displacement-time graph pictured below



Displacement-time graph

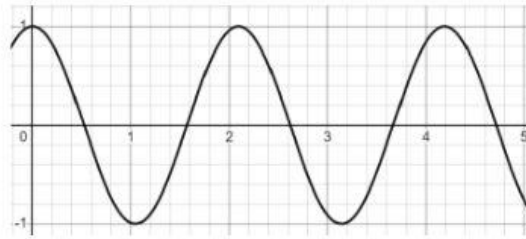


A.

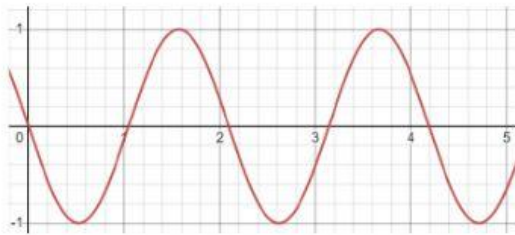


B.

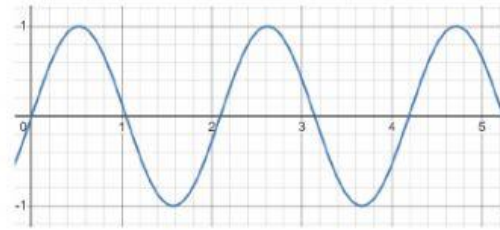
9. Identify the correct acceleration graph for the velocity graph pictured below



Velocity graph

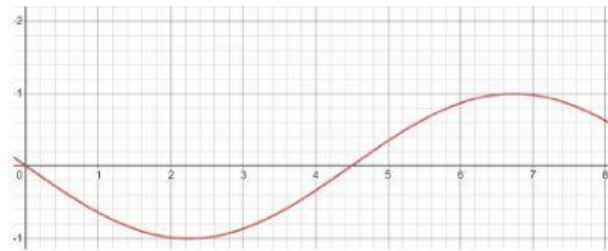


A.

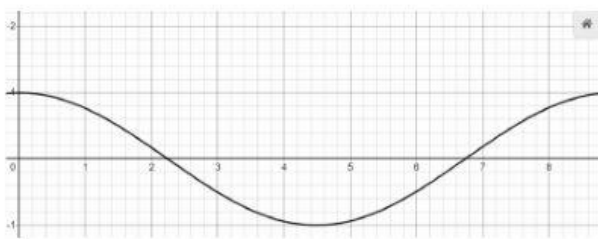


B.

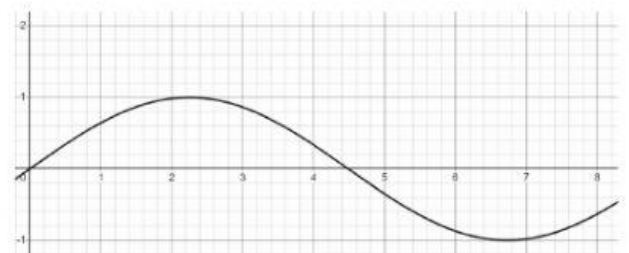
10. Identify the correct displacement-time graph for the acceleration graph pictured below



Acceleration Graph



A.



B.