The figure shows a “snapshot” graph made at t = 0 s of a wave moving to the right at the leisurely pace of 1 m/s (to keep the numbers simple).

A. Draw the snapshot graph D(x, t = 4 s).
B. Draw the snapshot graph D(x, t = -2 s).
C. Draw the history graph D(x = 0 m, t) at x = 0 m.
D. Draw the history graph D(x = 4 m, t) at x = 4 m.
The figure shows a “history” graph made at $x = 0$ m.

A. Draw the history graph $D(x = 1$ m, $t)$.
B. Draw the snapshot graph $D(x, t = 1$ s).
A. What is the wavelength and period of the wave shown in the snapshot graph above?

B. Draw graphs of the waves at $t = T/4$ and at $t = T/2$.

C. Draw a graph if the wavelength is halved.

D. Draw a graph if the frequency is halved, but the speed is unchanged.

E. Draw a graph if the phase constant is increased by $\pi$ radians.

F. Draw a graph if the tension is halved (assuming the wave is on a string), but the frequency is unchanged.