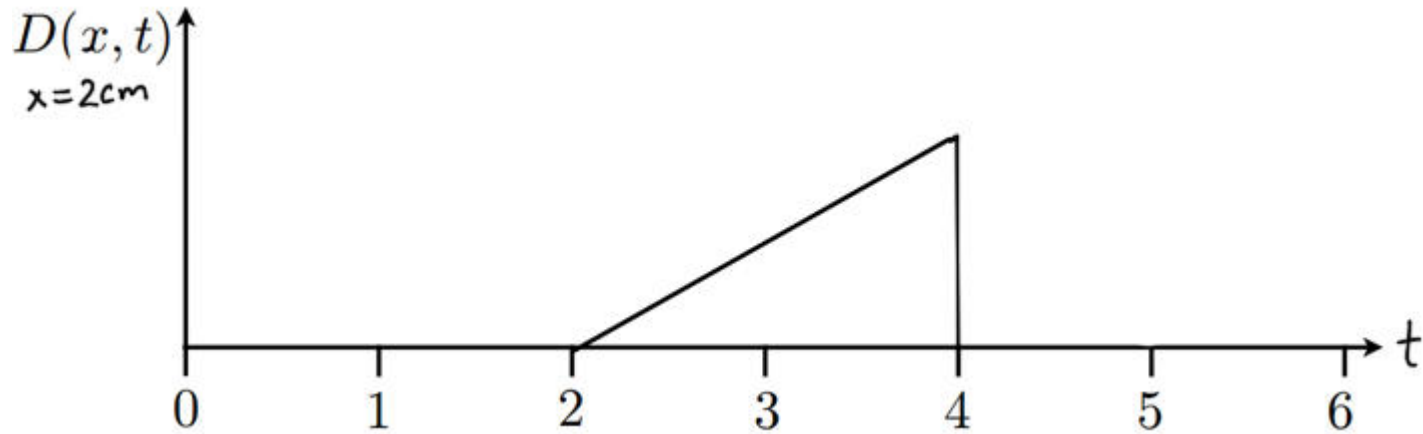


At $t=0$, a wave traveling to the right at 2m/s looks like the picture above. What does the displacement at $x = 6$ look like as a function of time?

EXTRA:

How would your graph change if the speed were 1m/s ?

How would your graph change if wave traveled at 2m/s to the left?

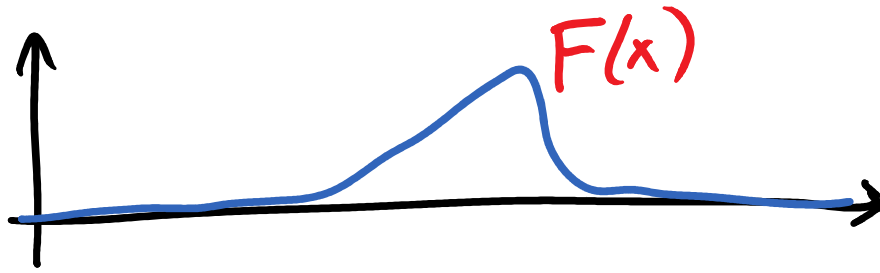


The graph above shows the displacement at a point $x=2\text{cm}$ for a transverse wave traveling to the left at 2cm/s . If we take a picture of the wave at $t=2\text{s}$, what will it look like?

EXTRA:

How would your graph change if the speed were 1cm/s ?

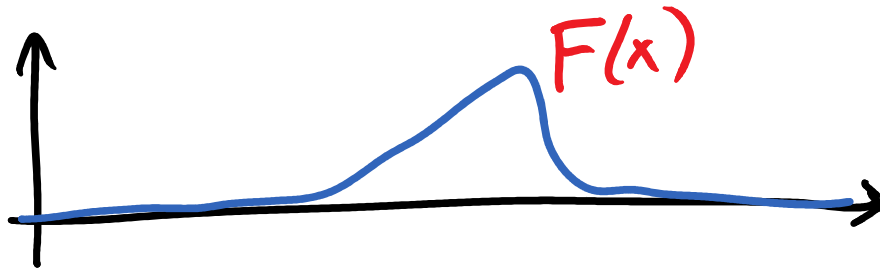
How would your graph change if wave traveled at 2cm/s to the left?



A wave at $t=0$ is described by the displacement function $F(x)$ graphed above. If the pulse moves a distance A to the right, the wave will be described by a displacement function

- A) $F(x + A)$
- B) $F(x - A)$
- C) $F(x) + A$
- D) $F(x) - A$
- E) still $F(x)$

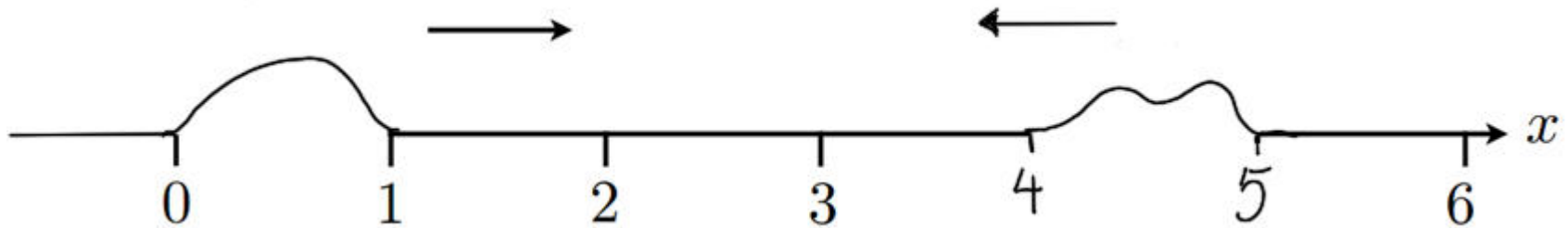
Suppose the pulse is travelling to the right at speed v . What is the displacement function after a time t ? How does your answer change if the motion is to the left?



A wave at $t=0$ is described by the displacement function $F(x)$ graphed above. If the pulse moves a distance A to the right, the wave will be described by a displacement function

- A) $F(x + A)$
- B) $F(x - A)$**
- C) $F(x) + A$
- D) $F(x) - A$
- E) still $F(x)$

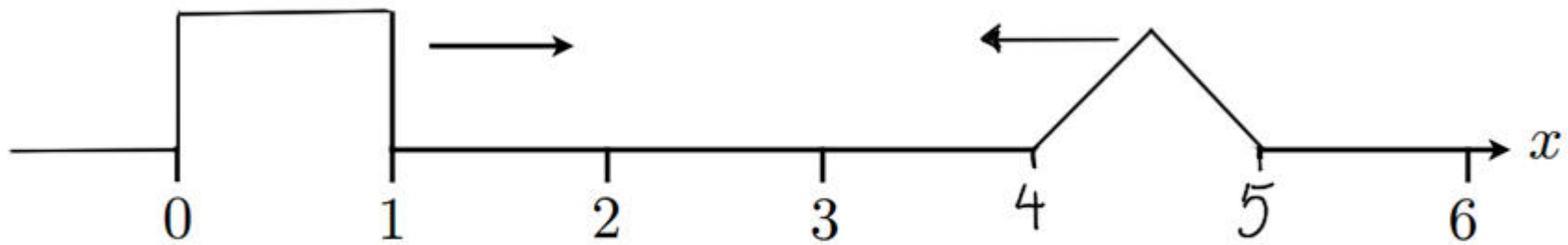
Suppose the pulse is travelling to the right at speed v . What is the displacement function after a time t ? How does your answer change if the motion is to the left?



Two wave pulses are travelling towards each other as shown. When they meet, they will:

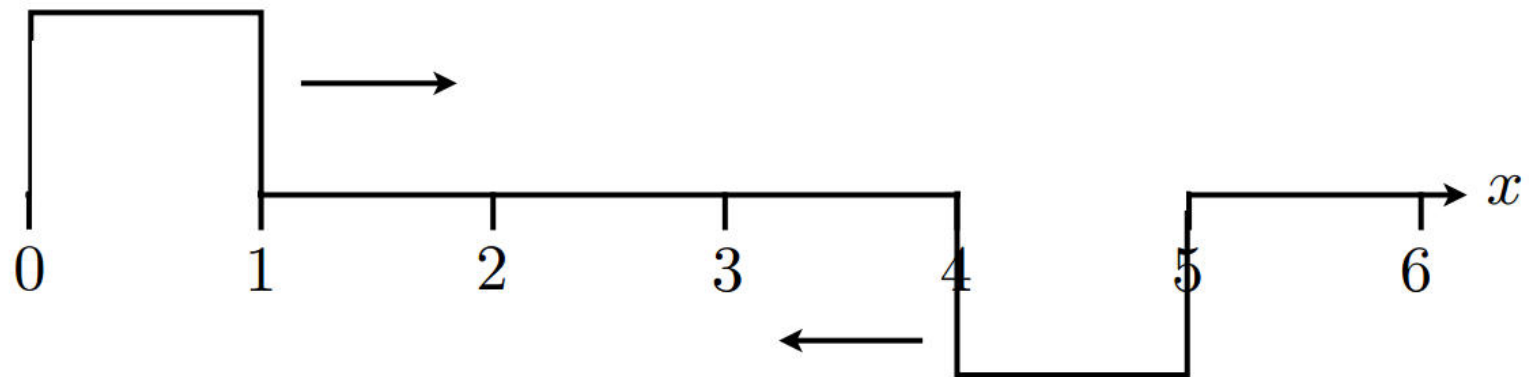
- A) Bounce off each other and reflect backwards
- B) Destroy each other, leaving a few random ripples going in either direction
- C) Pass right through each other

Two pulses are travelling towards each other, each moving $v=2\text{m/s}$.



Draw the waveform after 1 second has passed.

Two pulses are travelling towards each other, each moving $v=2\text{m/s}$.



Draw the waveform after 1 second has passed.