## Answer on Question #61727-Physics-Mechanics | Relativity

## A particle has:

 $\bigcirc$  an average acceleration of 6 m/s<sup>2</sup> if it goes from 2 m/s to 6 m/s in 2 seconds.

 $\bigcirc$  an average acceleration of 4 m/s<sup>2</sup> if it goes from 2 m/s to 6 m/s in 2 seconds.

 $\bigcirc$  an average acceleration of 12 m/s<sup>2</sup> if it goes from 2 m/s to 6 m/s in 2 seconds.

 $\bigcirc$  an average acceleration of 3 m/s<sup>2</sup> if it goes from 2 m/s to 6 m/s in 2 seconds.

 $\bigcirc$  an average acceleration of 2 m/s<sup>2</sup> if it goes from 2 m/s to 6 m/s in 2 seconds.

## Solution

The average acceleration is

$$a = \frac{v_f - v_i}{t} = \frac{6 - 2}{2} = 2\frac{m}{s^2}$$

So, the last choice is true.

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