

Formative assessment:
Students in Class

Acceleration Worksheet

Equations:

Acceleration = Final velocity – Initial velocity

1. A roller coaster car rapidly picks up speed as it rolls down a slope. As it starts down the slope, its **speed is 4 m/s**. But **3 seconds later**, at the bottom of the slope, its speed is **22 m/s**.

What is its average acceleration?

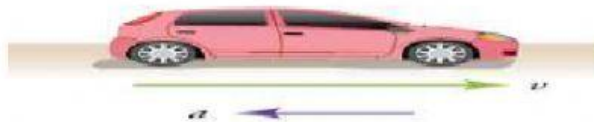
Acceleration = $\frac{\boxed{} - \boxed{}}{\boxed{}} = \boxed{} \text{ m/s}^2$

2. Choose the positive acceleration:

(a)



(b)



(c)



(d)

