Please take your seats and get out your notes. You may pick up any work from the top of the black bin.

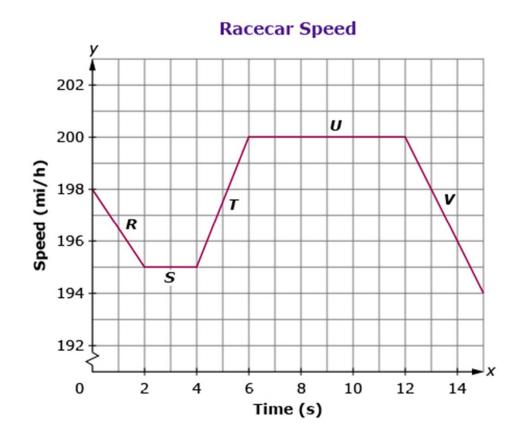
## Let's Go Racing!

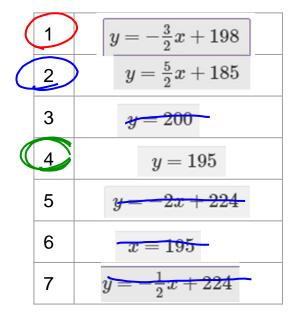
## How might a racecar's speed change over time of the race?

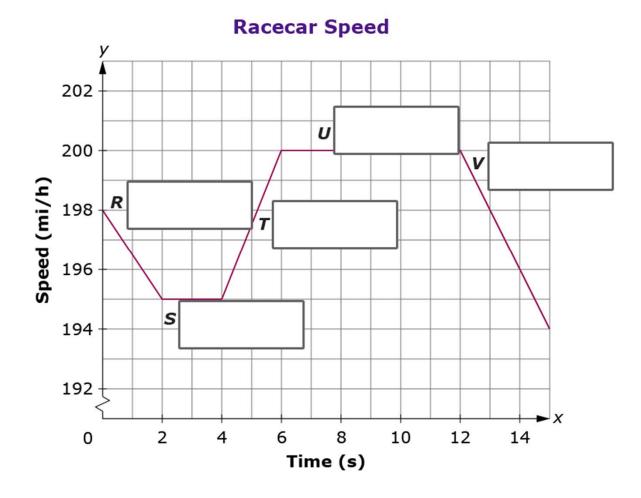
If you plot a racecar's speed compared to time during a race, what might the graph look like? Would it be linear? Explain.

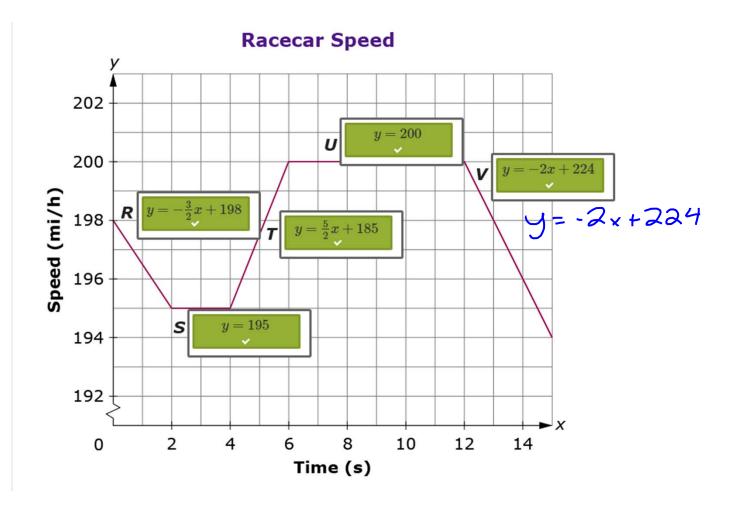
## Describe the graph

Models speed of a racecar during part of a lap









This function models the speed of another racecar 
$$f(x) = \begin{cases} 2x + 194 & \text{if } 0 \leq x < 1 \\ \frac{0.5x + 195.5}{197} & \text{if } 1 \leq x < 3 \\ 197 & \text{if } 3 \leq x < 11 \\ -0.5x + 202.5 & \text{if } 11 \leq x \leq 15 \end{cases}$$
 , where  $x$  is the time in seconds

