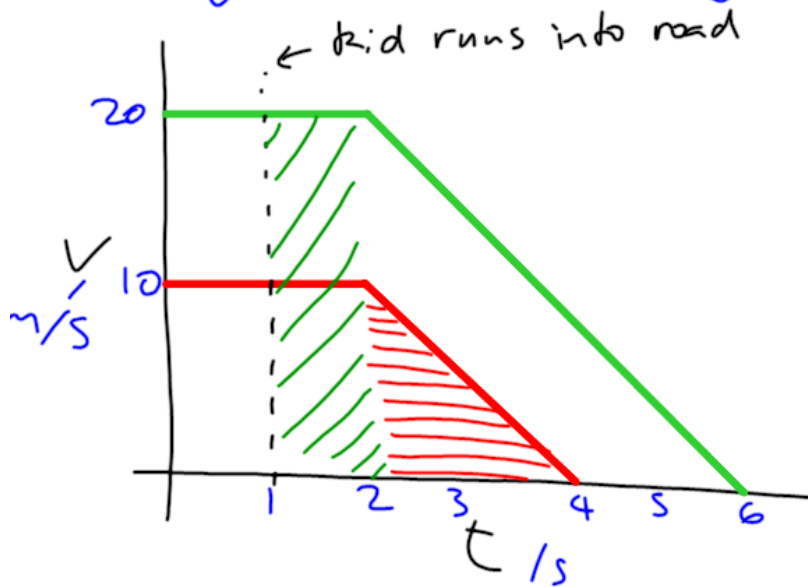


V-t graph for stopping cars



1. What is the reaction time of the driver of the red car?
Answer: 1 second
2. What is the reaction time of the driver of the green car?
Answer: 1 second
3. What does the gradient of a velocity-time graph represent?
4. What does the area under a velocity-time graph represent?
5. What is represented by the area shaded in green?
6. What is represented by the area shaded in red?
7. What can you say about the deceleration of the two cars when they were applying the brakes?
8. Calculate the thinking distance for
 - a. The red car
 - b. The green car
9. Calculate the braking distance for
 - a. The red car
 - b. The green car
10. Calculate the stopping distance for
 - a. The red car
 - b. The green car