

Honors Physics Homework 8/15
Hewitt # 11, 14, 22, 23, 43, 45

11. What is the acceleration of a car that travels in a straight line at a constant speed of 100 km/hr?

14. Why does the unit of time enter twice in the unit of acceleration?

22. What does the slope of the curve on a distance-versus-time graph represent?

23. What does the slope of the curve on a velocity-versus-time graph represent?

43. A dragster going at 15m/s north increases its velocity to 25 m/s north in 4 seconds. What is its acceleration during this time interval?

45. We drive for 1 hour at 20 km/hr. Then we drive for 1 hour at 30 km/hr. What is our average speed?