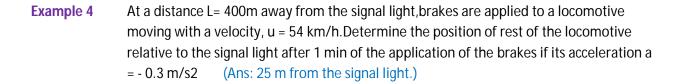
Solved Examples

A car is moving with the accelaration 2 m/s2 from rest. Find the distance traveled by the car in 10th second. (Ans: Distance traveled by the car in 10th s =21m)

Example 2 A car is moving with the initial velocity 15 m/s. Car stopped after 5s by application of breaks. Find the retardation (Decelaration). (Ans: -3 m/s2)

Example 3 A bus is moving with the initial velocity of 'u' m/s. After applying the breaks, its retardation is 0.5 m/s2 and it stopped after 12s. Find the initial velocity (u) and distance travel by the bus after applying the breaks. (Ans: Bus has stoped 36 m distance after applying the break)



Example 5 What is the speed of the body moving with uniform acceleration at the midpoint of two points on a straight line, where the speeds are u and v respectively? (Ans:)

Example 6	A car travels from rest with a constant acceleration 'a' for 't' seconds. What is the average speed of the car for its journey if the car moves along a straight road? (Ans: Average speed = at/2)
Example 7	A particle moving with constant acceleration of 2m/s2 due west has an initial velocity of 9 m/s due east. Find the distance covered in the fifth second of its motion (Ans: $S = \frac{1}{2}$ m)