<u>Sample question:</u> A car is travelling at a constant velocity of 30 m s⁻¹. At a time t = 0 s a police car starts to chase the car from rest. If the acceleration of the police car has a constant value of 3.0 m s⁻², calculate the time taken by the police car to reach the other car. What is the distance travelled by the car in that time?

Answer: t = 20s, distance = 600m