V= k2-2+6x where v is in m/ses and 2 in Compute the acceleration when 2 and K=3

- Q.2. A particle is dropped from the top of tower soon high and another particle is projected at the same time vertically upwards from the foot of the tower so as to meet the first particle at a height of 50m. Find the velocity of projection of the second particle.
- Q3. The driver of a car travelling at \$200m \$12km/h observe the traffic light 300m ahear of him turning red. The traffic light is timed to remain red for 205 light is timed to remain red for 205 before it turns green. If the driver before it turns green light without wishes to pass the light without stopping to wait for it to turn green, determine
 - a) The required uniform deceleration of the car
 - 6) The speed and which the driver crosser the traffic light.
- A projected stone moves in vertically upward direction from a point A paiser a point B after 3 sec. If it returns to A after further interval of A sec find (i) The height of B above A

the point midway between A and B

constat bull progested exects on value of a 15m/s If the ball has a range of som and the land angle of according and