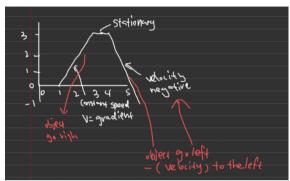
Motion graph

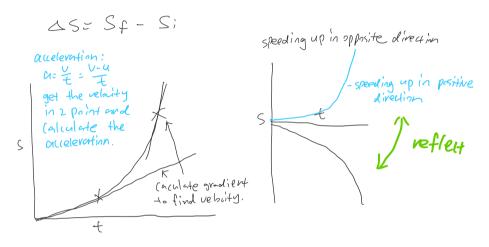
Monday, 5 February 2024

11:16 pm

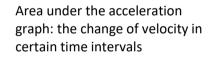
Displacement - time graph can be negative - as the object in opposite direction is longer than positive direction

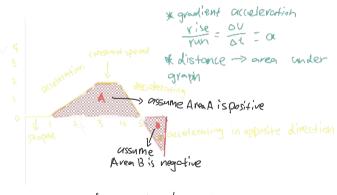


Speed cannot be negative



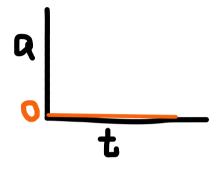
velocity - time graph







Motion graph of ball drop



When the acceleration is zero, the doesn't shows that position do not change, it only shows the acceleration is 0, it is likely the object move in the constant speed

The area under the acceleration shows the change of the velocity Eg when t=1 the v=2, when t=4, the v=-2, the change of the velocity =4

Velocity = |Area A| + |Area B| Speed = |Area A| - |Area B|