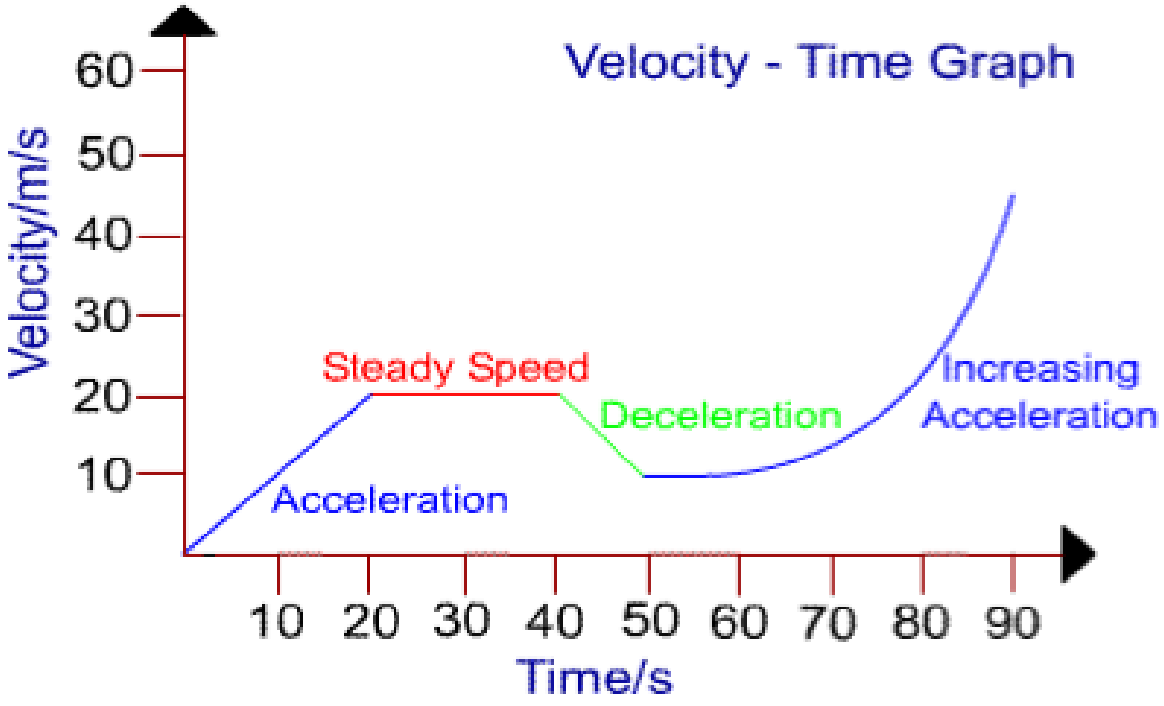
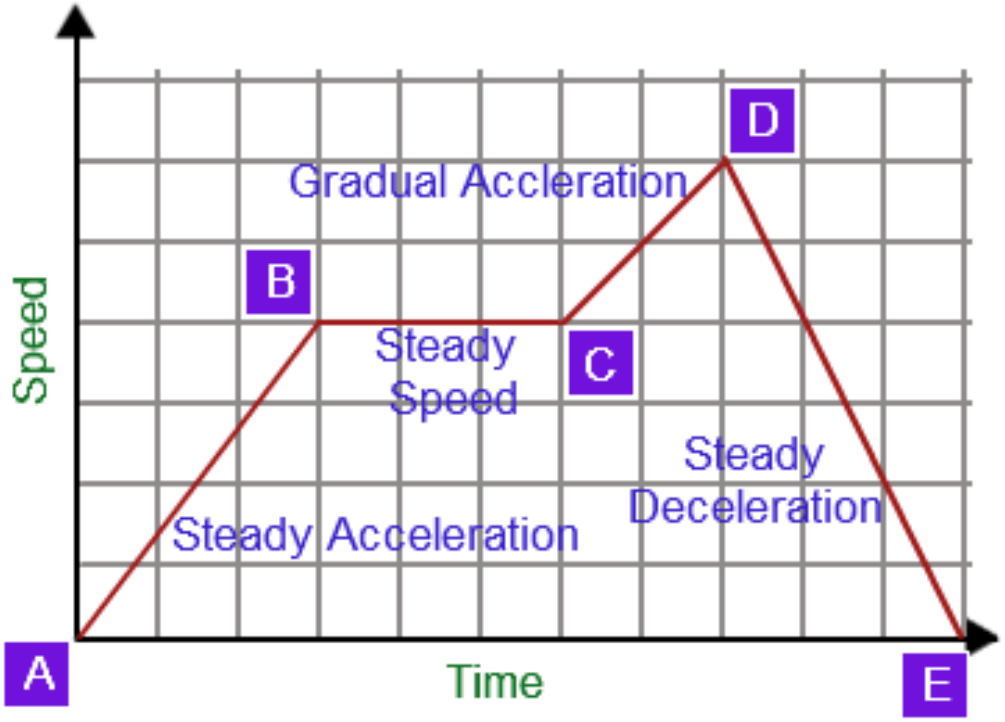
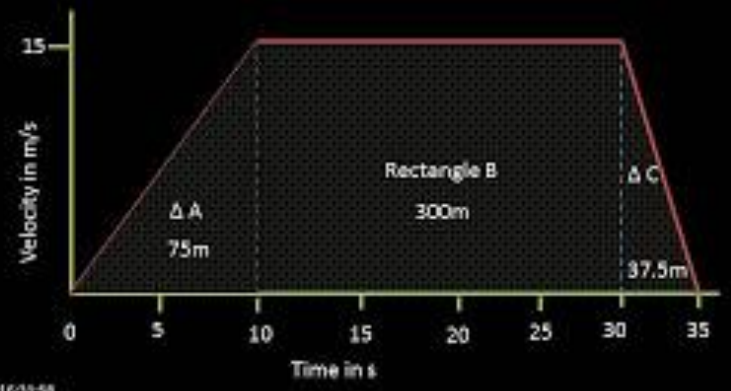

Velocity - Time Graph
Velocity/m/s
60
50
40
30
20
10
Steady Speed
Deceleration
Increasing
Acceleration
Acceleration
10 20 30 40 50 60 70 80 90
Time/s


Speed
A
B
C
D
E
Gradual Accleration
Steady
Speed
Steady Acceleration
Steady
Deceleration
Time

Distance travelled = area under the graph

- Area A = ½ base x height = ½ x 10s x 15m/s = 75m
- Area B = 20 x 15 = 300m
- Area C = ½ base x height = ½ x 5s x 15m/s = 37.5m



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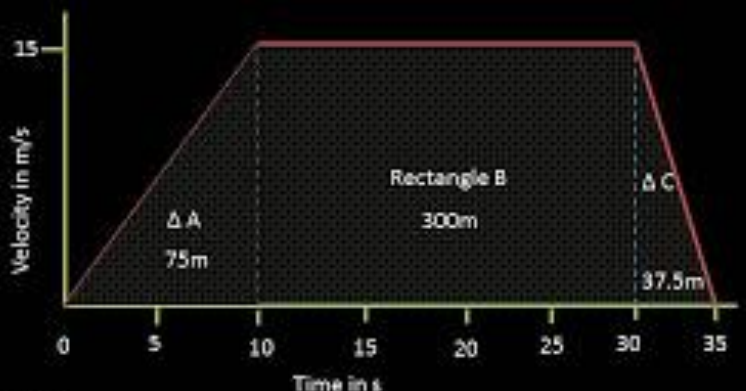
Distance travelled = area under the graph

- Total distance travelled = total area = A +B +C
- Total distance travelled = 75m + 300m + 37.5m = 412.5m



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