Speed Time Graphs

X axis ⟵⟶ represents "Time"

y axis ↕ represents "speed"

When an object is travelling at a constant speed
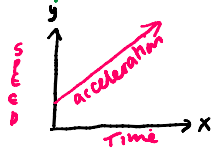 the graph will show a horizontal line
 The line is parallel to the X axis, the slope is 0

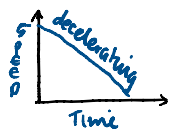When an object is increasing in speed (acceleration)
positive slope ⟶ the line will be rising from
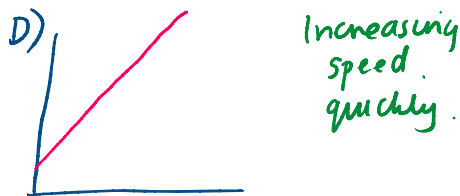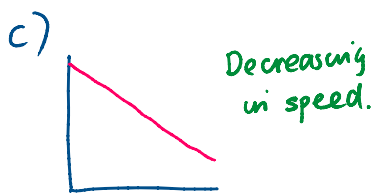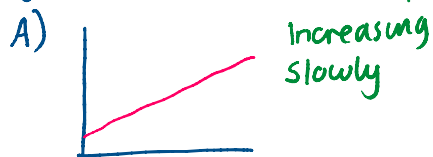 left to right.

When an object is decreasing in speed (deceleration)
negative slope ⟶ the line is falling from
 left to right

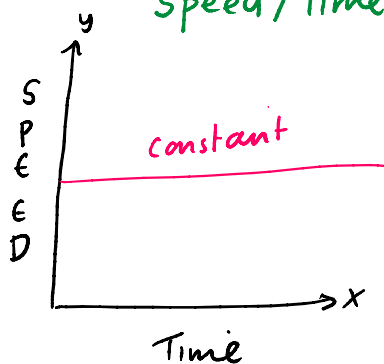

Eg1) Describe the motion of each of the graphs.

A)   Increasing   B)   Travelling
                       Slowly   at a
                                                               constant speed

C)   Decreasing   D)   Increasing
                       in speed.   speed
                                                               quickly.

Compare Graphs

Distance/Time

①

Increasing

Speed/Time

constant

②

H/W

②

DISTANCE (y-axis) vs **Time** (x-axis)

Fast, slows down

SPEED (y-axis) vs **Time** (x-axis)

decreasing

③

DISTANCE (y-axis) vs **Time** (x-axis)

Slow, Faster

SPEED (y-axis) vs **Time** (x-axis)

increasing acceleration.
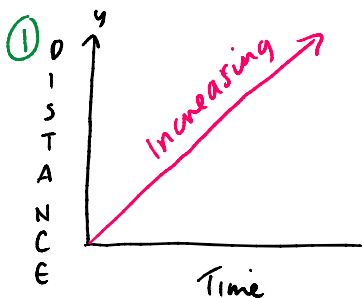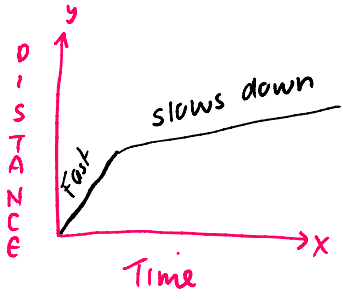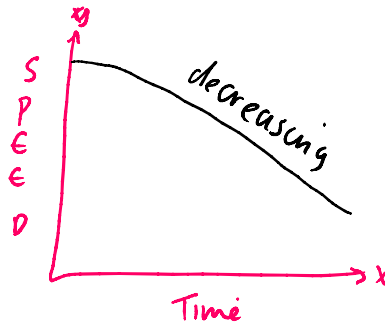
H/W
new pg 465
Q7
OLD pg 401
Q7