

CIKGU HARNISH



Pusat Tuisyen Skor Impian

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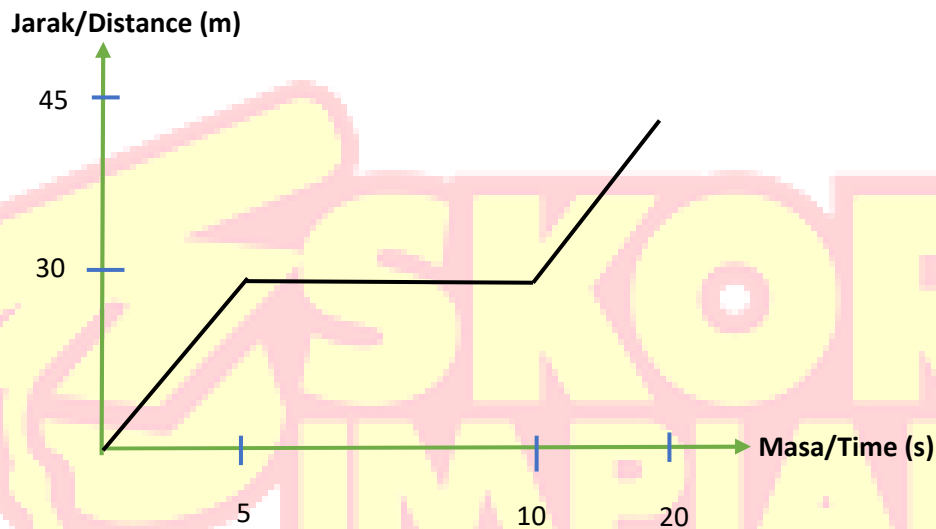
Bab 6: Kecerunan & Luas di  
bawah Graf

Chapter 6: Gradient and Area  
under a Graph

## 6.1 Graf Jarak Masa / Distance-Time Graph

1- Graf jarak-masa di bawah menunjukkan pergerakan bagi suatu zarah dalam tempoh 20 saat.

The distance-time graph shows movement of a particle for a period of 20 second.

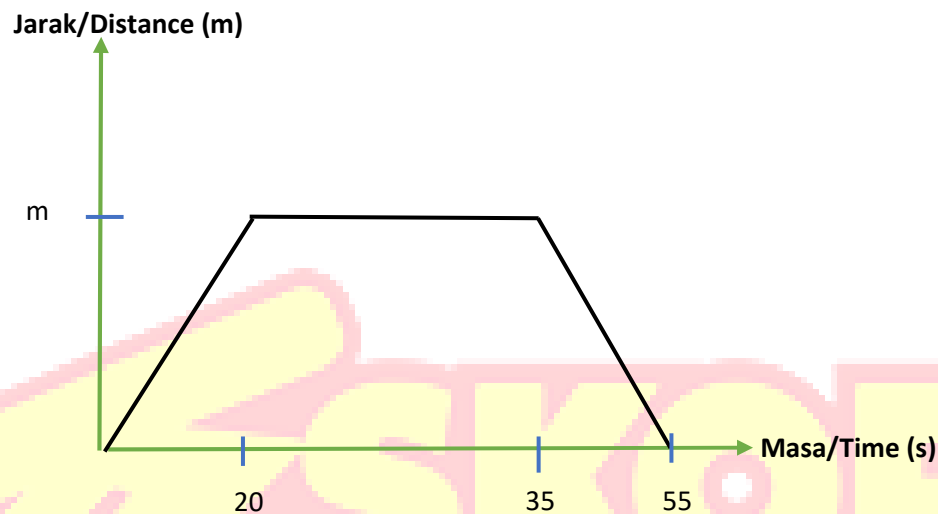


**Hitung/Calculate**

- laju zarah dalam 5 saat yang pertama  
the speed of particle in the first five second
- tempoh masa zarah itu berhenti  
the duration for which the particle stops
- laju zarah dalam 10 saat yang terakhir  
the speed of particle in the last ten second

2- Rajah menunjukkan graf jarak-masa bagi pergerakan bagi suatu zarah dalam tempoh 55 saat.

The diagram shows distance-time graph shows movement of a particle for a period of 55 second.



a) Laju zarah dalam 20 saat yang terakhir ialah  $160 \text{ ms}^{-1}$ . Cari nilai  $m$

The speed of particle in the last 20 second is  $160 \text{ ms}^{-1}$ . Find value of  $m$

b) Cari tempoh masa zarah itu berhenti

Find the duration for which the particle stops

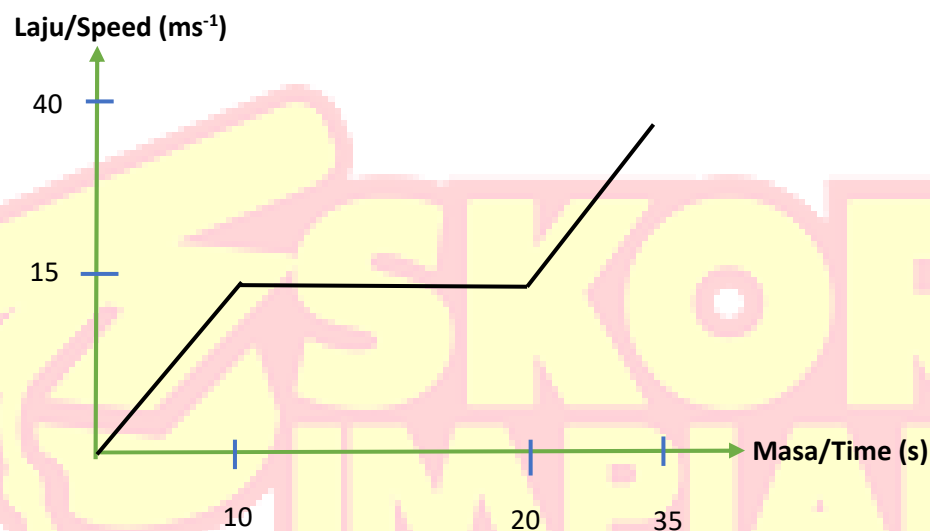
c) Cari laju purata dalam tempoh 55 saat.

Find average speed in 50 seconds

## 6.2 Graf Laju-Masa / Speed-Time Graph

3- Graf laju-masa di bawah menunjukkan pergerakan bagi suatu zarah dalam tempoh 35 saat.

The speed-time graph shows movement of a particle for a period of 20 second.

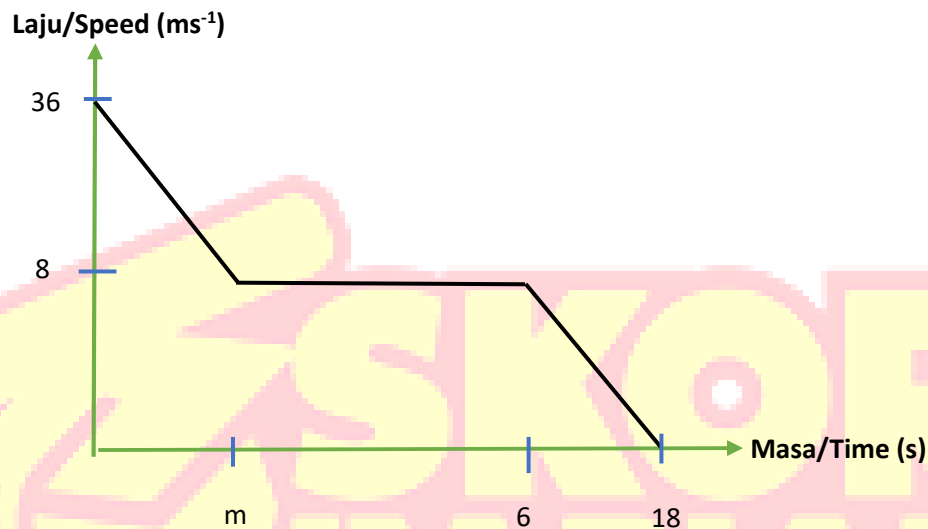


**Hitung/Calculate**

- kadar perubahan kelajuan zarah dalam 10 saat yang pertama  
the rate of change speed of particle in the first ten second
- tempoh masa zarah itu bergerak dengan laju seragam  
the duration for which the particle moves with uniform speed
- jarak yang dilalui dalam 15 saat yang terakhir  
the distance in the last fifteen second

4- Graf laju-masa di bawah menunjukkan pergerakan bagi suatu zarah dalam tempoh 35 saat.

The speed-time graph shows movement of a particle for a period of 20 second.



Diberi kadar perubahan kelajuan dalam m saat yang pertama ialah  $3 \text{ ms}^{-1}$ .

Given the rate of change of speed in the first m second is  $3 \text{ ms}^{-1}$ .

Hitung/Calculate

a) nilai m/ value of m

b) jarak yang dilalui dengan laju seragam  
the distance travelled with uniform speed

c) jumlah jarak yang dilalui dalam 18 saat  
total distance travelled for the period of 18 seconds