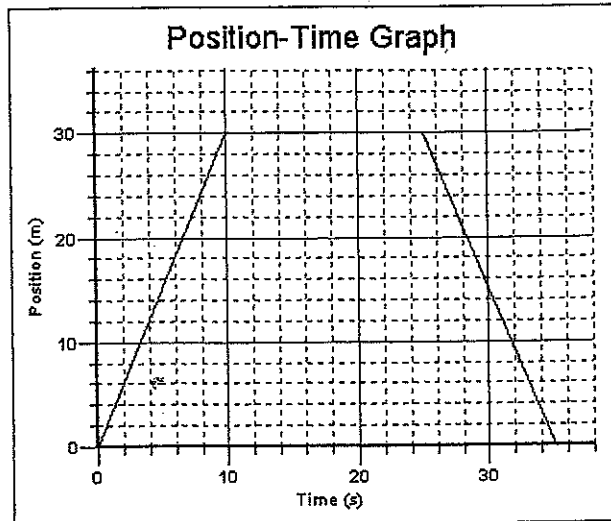


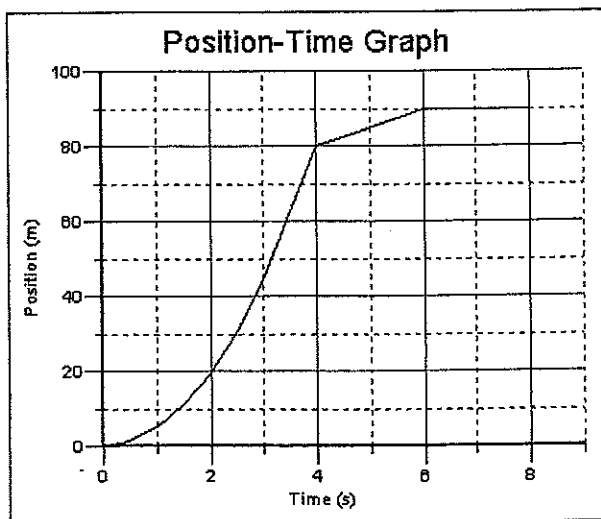
## 4.6. Graphing Student Motion Review Sheets (Homework or Class Work)



Graph 1.4

Answer the following questions for the object moving as shown in Position-Time Graph 1.

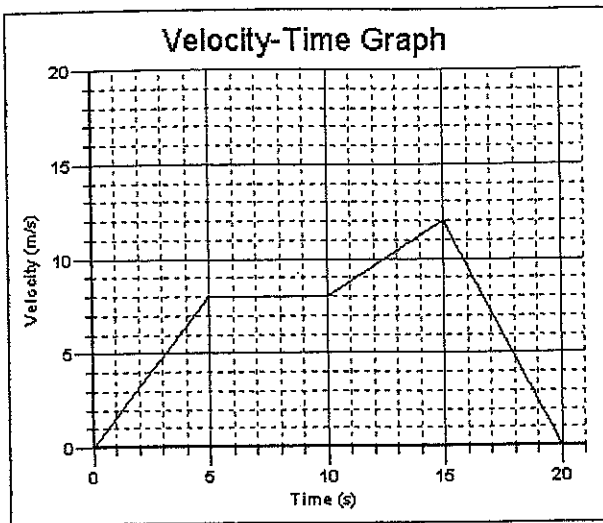
- \_\_\_\_\_ (a) How far does the object travel between 5 and 10 s?
- \_\_\_\_\_ (b) During which time interval is the velocity zero?
- \_\_\_\_\_ (c) How far does the object travel between 10 and 25 s?
- \_\_\_\_\_ (d) During which time interval is the velocity negative?
- \_\_\_\_\_ (e) What is the position of the object at 35 s?
- \_\_\_\_\_ (f) Is the object accelerating during any time period represented by the graph?



Graph 2.4

Answer the following questions for the object moving as shown in Position-Time Graph 2.

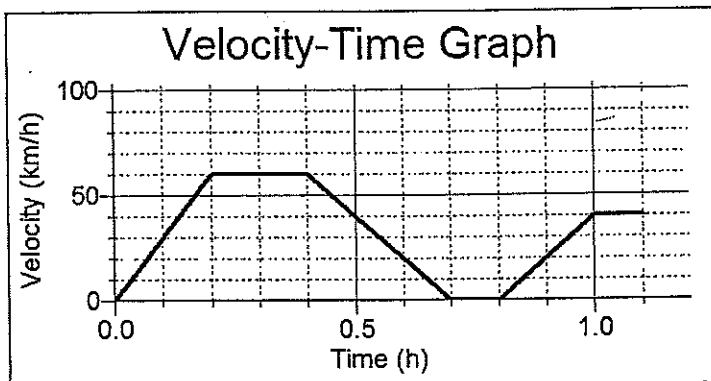
- \_\_\_\_\_ (a) What is the velocity between 6 and 8 s?
- \_\_\_\_\_ (b) What is the velocity at 5 s?
- \_\_\_\_\_ (c) Is the velocity greater between 0 and 2 s or between 3 and 4 s?
- \_\_\_\_\_ (d) During which time interval(s) did the object accelerate?
- \_\_\_\_\_ (e) What is the displacement between 4 and 6 s?



**Graph 3.4**

Answer the following questions for the object moving as shown in Velocity-Time Graph 3.

- \_\_\_\_\_ (a) During which time interval is the acceleration zero?
- \_\_\_\_\_ (b) Is the acceleration greater between 10 and 15 s or between 15 and 20 s?
- \_\_\_\_\_ (c) What is the displacement at the end of 15 s.
- \_\_\_\_\_ (d) What is the displacement between 10 and 15 s?
- \_\_\_\_\_ (e) What is the acceleration between 15 and 20 s?



**Graph 4.4**

Answer the following questions for the car moving as shown in Velocity-Time Graph 4.

- \_\_\_\_\_ (a) At what time was the car stopped?
- \_\_\_\_\_ (b) What was the greatest velocity the car reached?
- \_\_\_\_\_ (c) How fast was the car going at 0.3 h?
- \_\_\_\_\_ (d) At what time did the car have the greatest velocity?
- \_\_\_\_\_ (e) During which time intervals was the car accelerating?
- \_\_\_\_\_ (f) What is the car's acceleration at 0.5 h?
- \_\_\_\_\_ (g) What is the acceleration of the car at 0.9 h?