

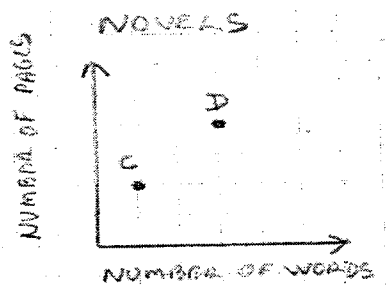
**Exercises**

Write a statement that completely describes the information contained in each graph below.

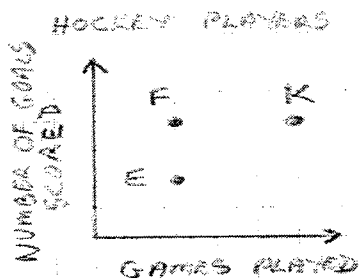
Graph

Statement Describing the Graph

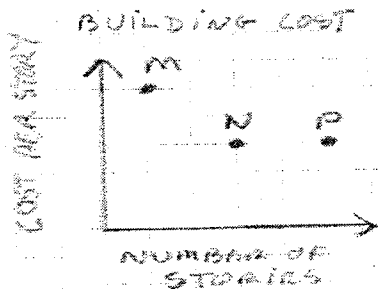
1.



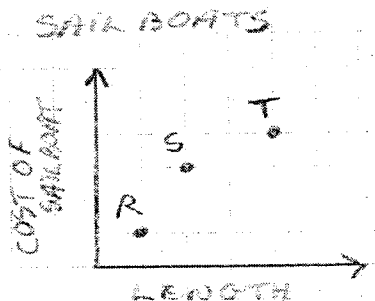
2.



3.

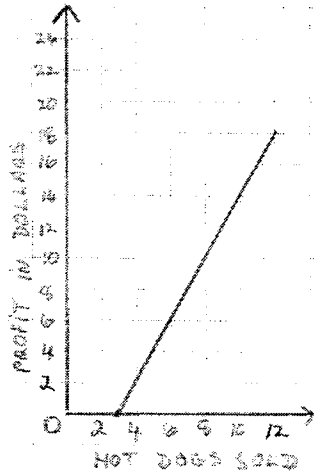


4.

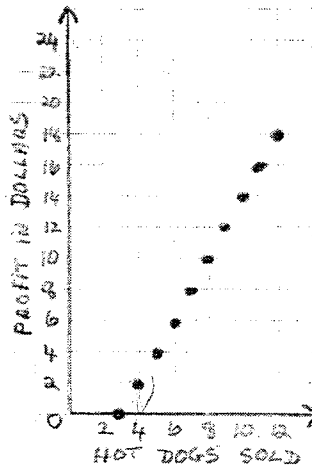


5. A school team is raising money for uniforms. Each day the team buys a dozen hot dogs with buns for \$6. The team then sells the hot dogs for \$2 each. Which graph best represents the team's profit for one day as a function of the number of hot dogs sold? Explain your answer

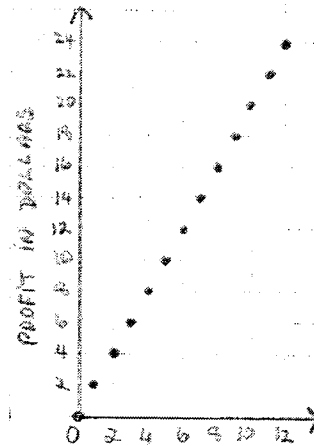
Graph (i)



Graph (ii)



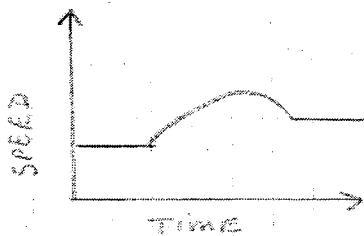
Graph (iii)



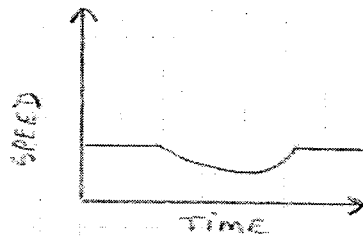
Solution:

6. A truck is traveling at a constant speed on a highway. The truck increases its speed to pass a slower moving car, and then the truck resumes its original speed. Which graph best describes this motion? Explain your answer.

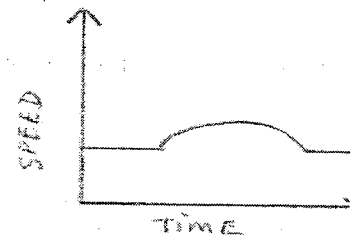
Graph (i)



Graph (ii)



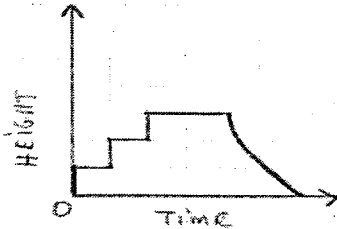
Graph (iii)



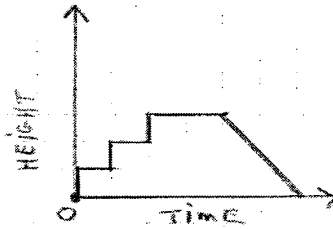
Solution:

7. In a backyard playground, a child climbs 3 steps to a slide, stops at the top, then slides down. Which graph represents the height of the child as a function of time? Explain your answer.

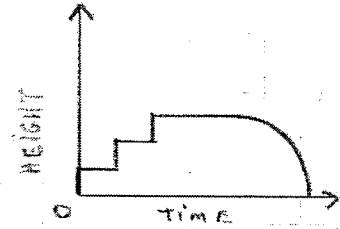
Graph (i)



Graph (ii)



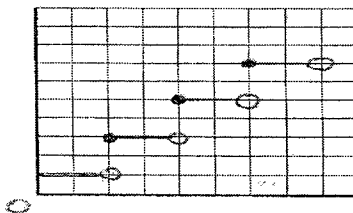
Graph (iii)



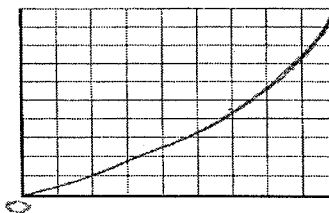
Solution:

8. Match each graph below with an appropriate statement that might describe the relation.

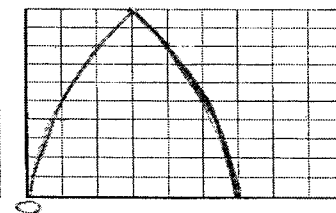
A



B



C



- (i) The height of a kicked soccer ball changes with time.
- (ii) The cost of parking depends on the length of time parked.
- (iii) The braking distance of a car changes with time.