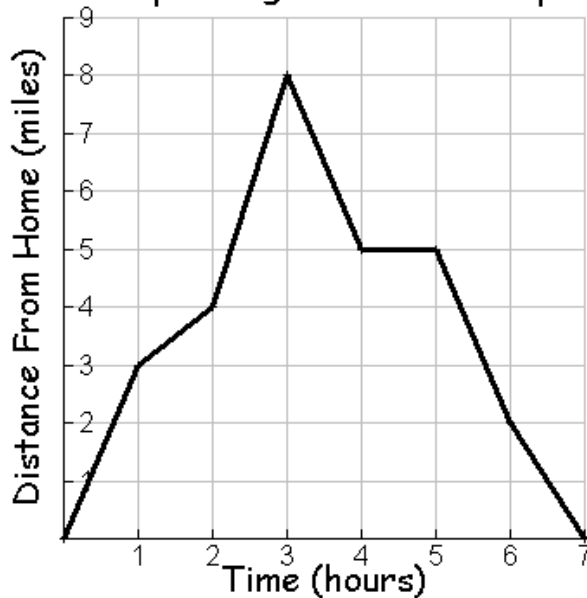## Interpreting Distance Graphs

Ann went skateboarding on Saturday. A graph of her distance from home at any given time is given above. Use the graph to answer the following questions.

1. At what time is Ann's distance from home 0 miles?

2. What is Ann's maximum distance from home? At what time is she farthest from home?

3. When did Ann stop for lunch? How far from home was she when she stopped for lunch? How long did she stop for lunch?

4. How many hours was Ann's trip?

5. When did Ann skate the fastest? What was her speed in miles per hour?

6. When was Ann skating the slowest? What was her speed in miles per hour?

7. What was Ann's distance from home at 6 hours?

8. Approximate when Ann's distance from home was 4 miles?

9. During what time was Ann's distance from home increasing?

10. During what time was Ann's distance from home decreasing?

11. When was Ann skating the same rate away from home and towards home?
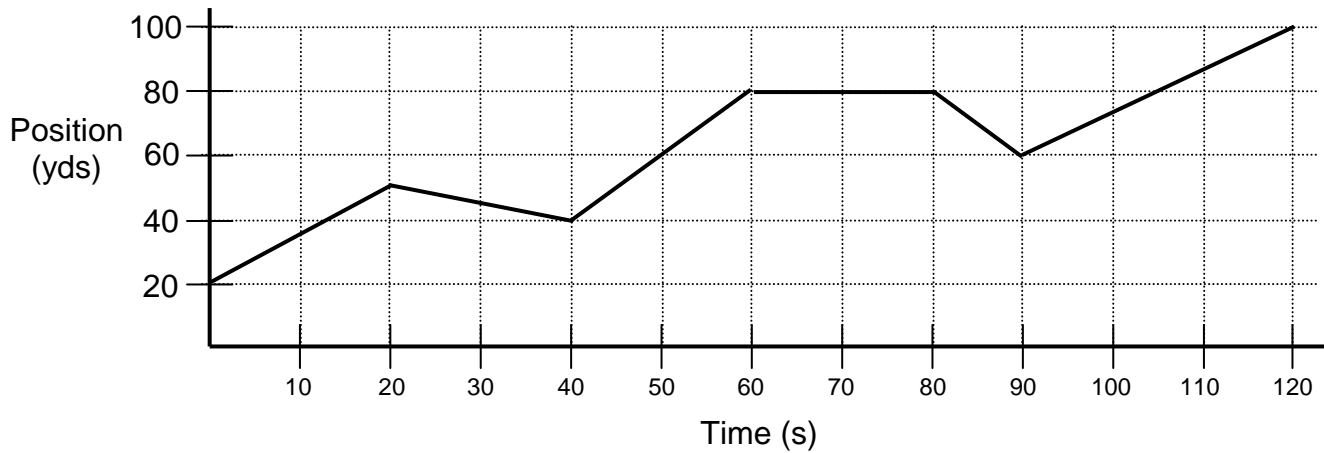
Above is a position-time graph of the O'Connor Panthers in pursuit of a victory over the Del Rio Rams. Use the graph above to answer the following questions.

12. Determine the time interval(s) the Panthers are gaining yards.

17. Determine the average speed of the Panthers from 40 to 60 seconds.

13. Determine the time interval(s) the Panthers are losing yards.

18. Determine the average speed of the Panthers from 90 to 120 seconds.

14. Determine the time interval(s) when no yards were gained.

19. Determine the interval where the speed of the Panthers is greatest.

15. Find the total yardage gained from 0 to 120 seconds.

20. What is happening from 60 – 70 seconds?

16. Find the total yardage lost from 0 to 120 seconds.

21. What yard line did the Panthers begin their drive?