1. (a) Consider the following workload:

|  |  |  |
| --- | --- | --- |
| Process | Arrival time | Service time |
| A | 0 | 3 |
| B | 1 | 4 |
| C | 3 | 3 |
| D | 8 | 5 |
| E | 9 | 2 |

Draw a time scale diagrams to illustrate how these processes would be scheduled using (a) FCFS (b) SPN(c) SRT (d) Round-Robin (q=3) scheduling and calculate the finished time, turnaround time and average turnaround time for each process.

(b) Consider the disk scheduling problem: assume that a disk has 200 tracks and the sequence of disk track requests: 27, 129, 119 186, 147, 41, 90, 64, and 39.. Assume that the disk head is initially positioned over track 100 and is now moving in the direction of **increasing** track number.

(b) Do the same analysis, but now assume that the disk head is moving in the direction of decreasing track number