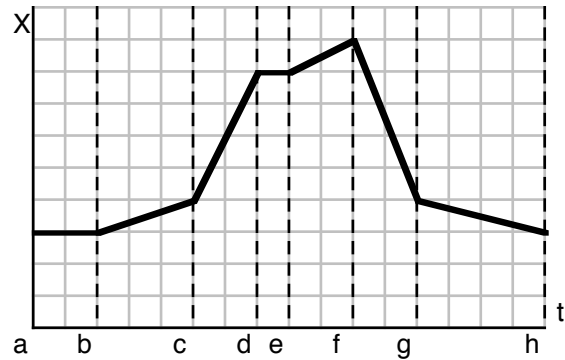# Motion Graphs I

1. For the position vs time graph to the right:

    a. Where is the object at rest?

    b. Where is the object going forwards?

    c. Where is the object going backwards?

    d. Where is the object going the <u>fastest</u>?
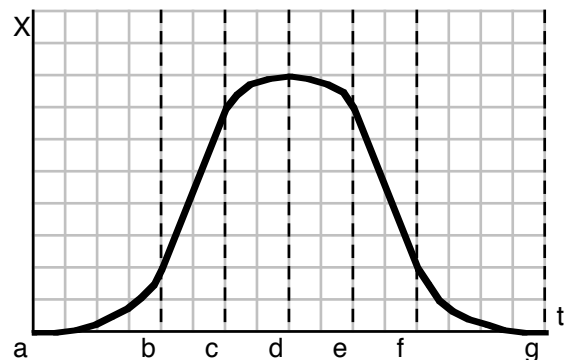
2. For the position vs time graph to the right:
    a. Where is the object at rest?

    b. Where is the object going forwards?

    c. Where is the object going backwards?

    d. Where is the object speeding up?

    e. Where is the object slowing down?

    f. Where is the acceleration positive?

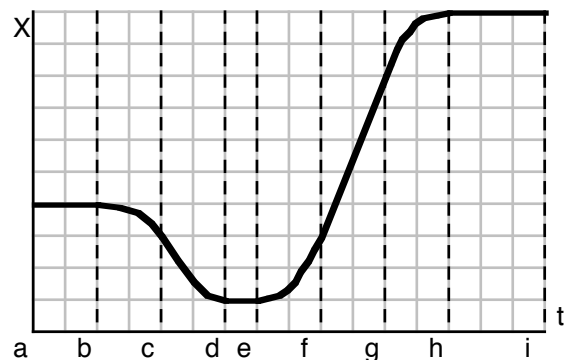   g. Where is the acceleration negative?

3. For the position vs time graph to the right:
    a. Where is the object at rest?

    b. Where is the object going forwards?

    c. Where is the object going backwards?

    d. Where is the object speeding up?

    e. Where is the object slowing down?

    f. Where is the acceleration positive?

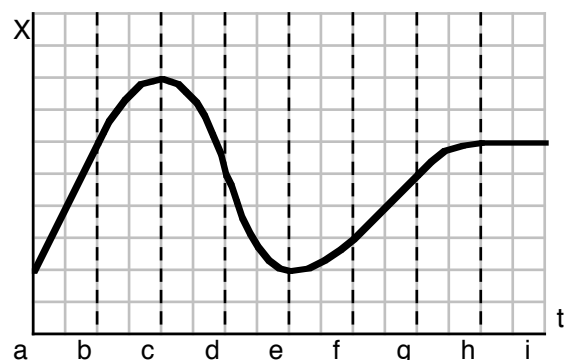   g. Where is the acceleration negative?

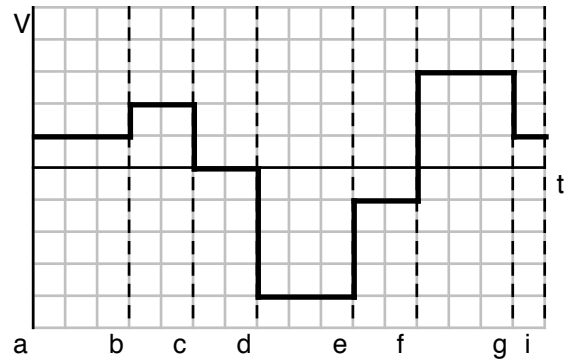4. For the position vs time graph to the right:
    a. Where is the object at rest?

    b. Where is the object going forwards?

    c. Where is the object going backwards?

    d. Where is the object speeding up?

    e. Where is the object slowing down?

    f. Where is the acceleration positive?

    g. Where is the acceleration negative?

side 1

Motion Graphs I

5. For the velocity vs time graph to the right:
    a.   Where is the object at rest?

    b.   Where is the object going forwards?

    c.   Where is the object going backwards?

    d.   Where is the object going the <u>fastest</u>?
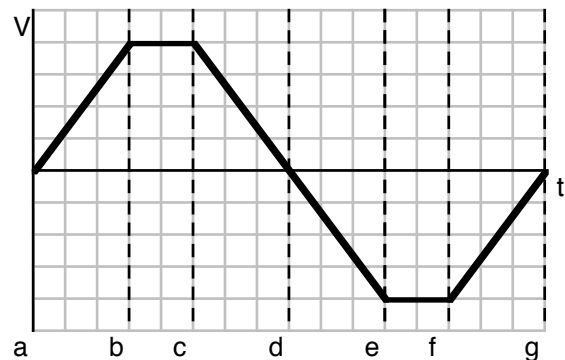
6. For the velocity vs time graph to the right:
    a.   Where is the object at rest?

    b.   Where is the object going forwards?

    c.   Where is the object going backwards?

    d.   Where is the object speeding up?

    e.   Where is the object slowing down?

    f.   Where is the acceleration positive?

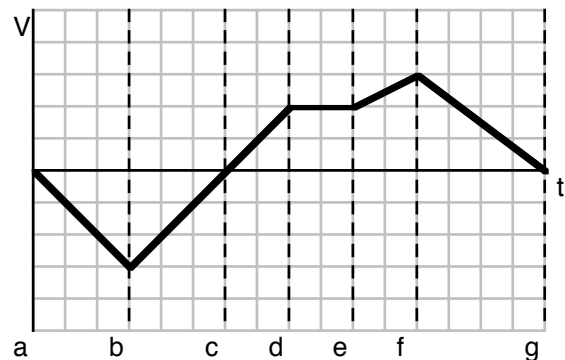   g.   Where is the acceleration negative?

7. For the velocity vs time graph to the right:
    a.   Where is the object at rest?

    b.   Where is the object going forwards?

    c.   Where is the object going backwards?

    d.   Where is the object speeding up?

    e.   Where is the object slowing down?

    f.   Where is the acceleration positive?

    g.   Where is the acceleration negative?

8. For the velocity vs time graph to the right:
    a.   Where is the object at rest?

    b.   Where is the object going forwards?

    c.   Where is the object going backwards?

    d.   Where is the object speeding up?

    e.   Where is the object slowing down?

    f.   Where is the acceleration positive?

    g.   Where is the acceleration negative?