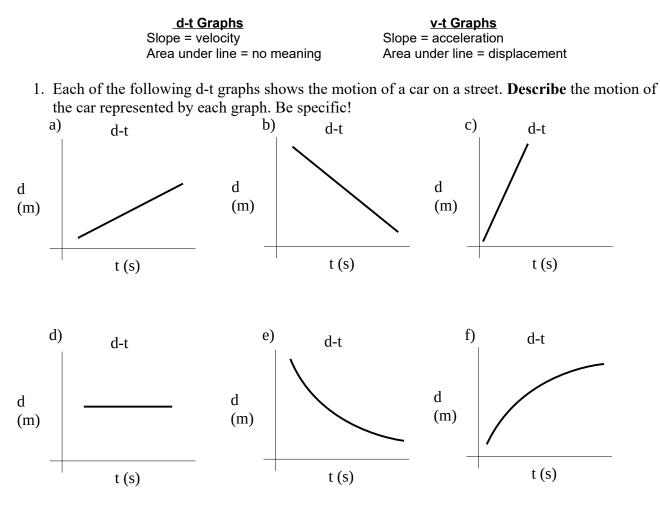
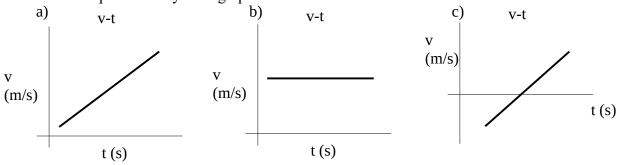
Physics 20 d-t & v-t Graph Worksheet

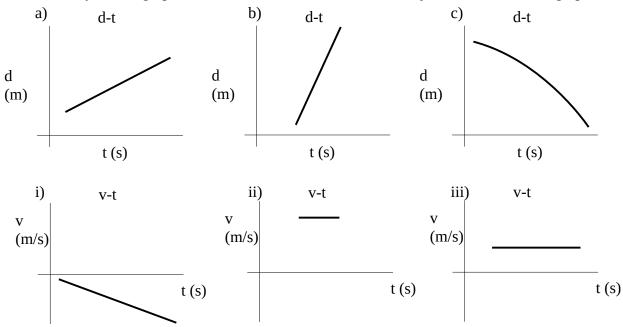
The following questions involve the interpretation of d-t (*aka position-time*) and v-t graphs. As you work through them, make sure that you keep in mind that different types of graphs show fundamentally different information. Besides reviewing Lesson 9, keep the following in mind:



2. Each of the following v-t graphs shows the motion of a car on a street. **Describe** the motion of the car represented by each graph.



3. **Sketch** a d-t and a v-t graph that show a bunny moving forwards at a constant velocity, slowing down, stopping, and then running backwards at a very fast uniform velocity.



4. **Identify** the d-t graph that shows the same motion of the object as one of the v-t graph.

- 5. The following graphs show information about a toy robot moving across the floor. Using concepts like slope and area under the line, **determine**:
 - a) the velocity of the toy during the first part of the trip (solid line) from both graphs.
 - b) the total displacement of the toy.
 - c) the acceleration of the toy during the end of the trip (dotted line).

