

Practice Problems

3.1 Acceleration

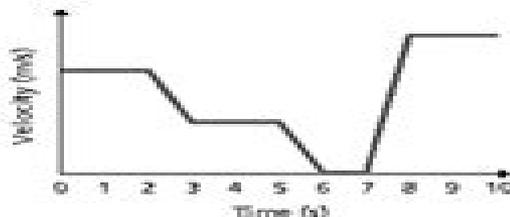
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1. A dog runs into a room and sees a cat at the other end of the room. The dog instantly stops running but slides along the wood floor until he stops, by slowing down with a constant acceleration. Sketch a motion diagram for this situation, and use the velocity vectors to find the acceleration vector.



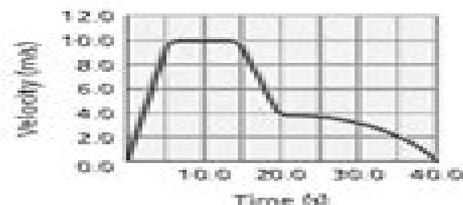
2. Figure 3-5 is a $v-t$ graph for Steven as he walks along the midway at the state fair. Sketch the corresponding motion diagram, complete with velocity vectors.



■ Figure 3-5



3. Refer to the $v-t$ graph of the toy train in Figure 3-6 to answer the following questions.



■ Figure 3-6

- a. When is the train's speed constant?
5.0 to 15.0 s
- b. During which time interval is the train's acceleration positive?
0.0 to 5.0 s
- c. When is the train's acceleration most negative?
15.0 to 20.0 s
4. Refer to Figure 3-6 to find the average acceleration of the train during the following time intervals.

- a. 0.0 s to 5.0 s

$$\begin{aligned} \bar{a} &= \frac{v_2 - v_1}{t_2 - t_1} \\ &= \frac{10.0 \text{ m/s} - 0.0 \text{ m/s}}{5.0 \text{ s} - 0.0 \text{ s}} \\ &= 2.0 \text{ m/s}^2 \end{aligned}$$

- b. 15.0 s to 20.0 s

$$\begin{aligned} \bar{a} &= \frac{v_2 - v_1}{t_2 - t_1} \\ &= \frac{4.0 \text{ m/s} - 10.0 \text{ m/s}}{20.0 \text{ s} - 15.0 \text{ s}} \\ &= -1.2 \text{ m/s}^2 \end{aligned}$$

- c. 0.0 s to 40.0 s

$$\bar{a} = \frac{v_2 - v_1}{t_2 - t_1}$$

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