

Practice Problems

3.1 Acceleration

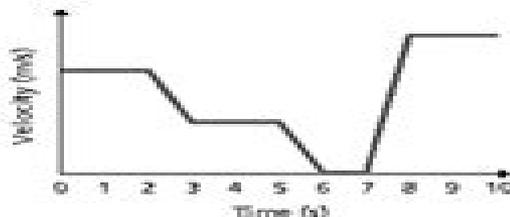
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1. A dog runs into a room and sees a cat at the other end of the room. The dog instantly stops running but slides along the wood floor until he stops, by slowing down with a constant acceleration. Sketch a motion diagram for this situation, and use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



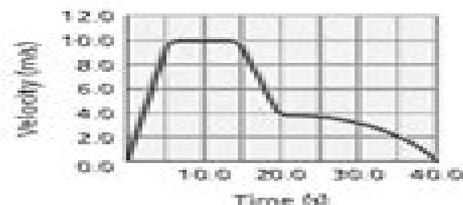
2. Figure 3-5 is a $v-t$ graph for Steven as he walks along the midway at the state fair. Sketch the corresponding motion diagram, complete with velocity vectors.



■ 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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SB Merriam



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web connectivity the classification of the relationship between entities classifications include 1 1 1 m and m n derived attribute an attribute that does not physically exist within the entity and is derived via an algorithm for example the age attribute might be derived by subtracting the birth date from the current date existence dependent

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