

DATE:

NAME:

Key

CLASS:

1-13

CHAPTER 11
SCIENCE INQUIRY

Recognizing Accelerated Motion

BLM 11-2

Goal • Determine whether an object is accelerating or moving with uniform motion.

What to Do

Answer each question in the space provided.

- Carefully examine each diagram below. Decide whether the diagram represents accelerated or uniform motion, and explain your reasons. Any dotted lines indicate the path of the object.

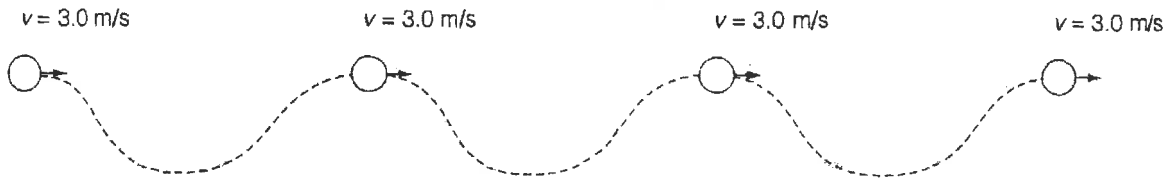
(a)



Type of motion: uniform motion

Explanation: constant speed, constant direction

(b)



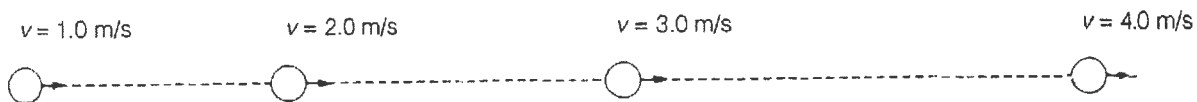
Type of motion: accelerated motion

Explanation: direction changes

Recognizing Accelerated Motion

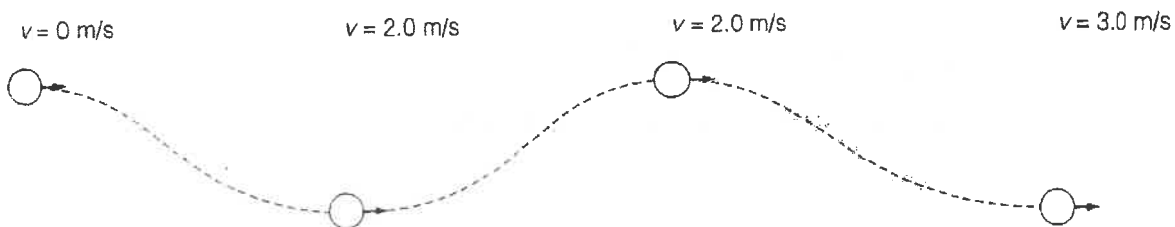
(continued)

(c)


 Type of motion: accelerated motion

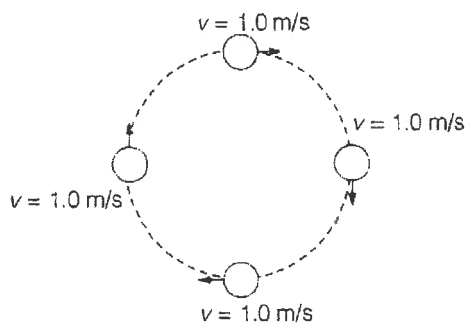
 Explanation: speed changes

(d)


 Type of motion: accelerated motion

 Explanation: speed and direction change

(e)


 Type of motion: accelerated motion

 Explanation: direction changes

Recognizing Accelerated Motion (continued)

(f)

Type of motion: accelerated motionExplanation: direction changes

2. (a) Under what conditions is an object moving with uniform motion?

constant speed and direction

(b) Under what conditions is an object accelerating?

speed and/or direction changes

