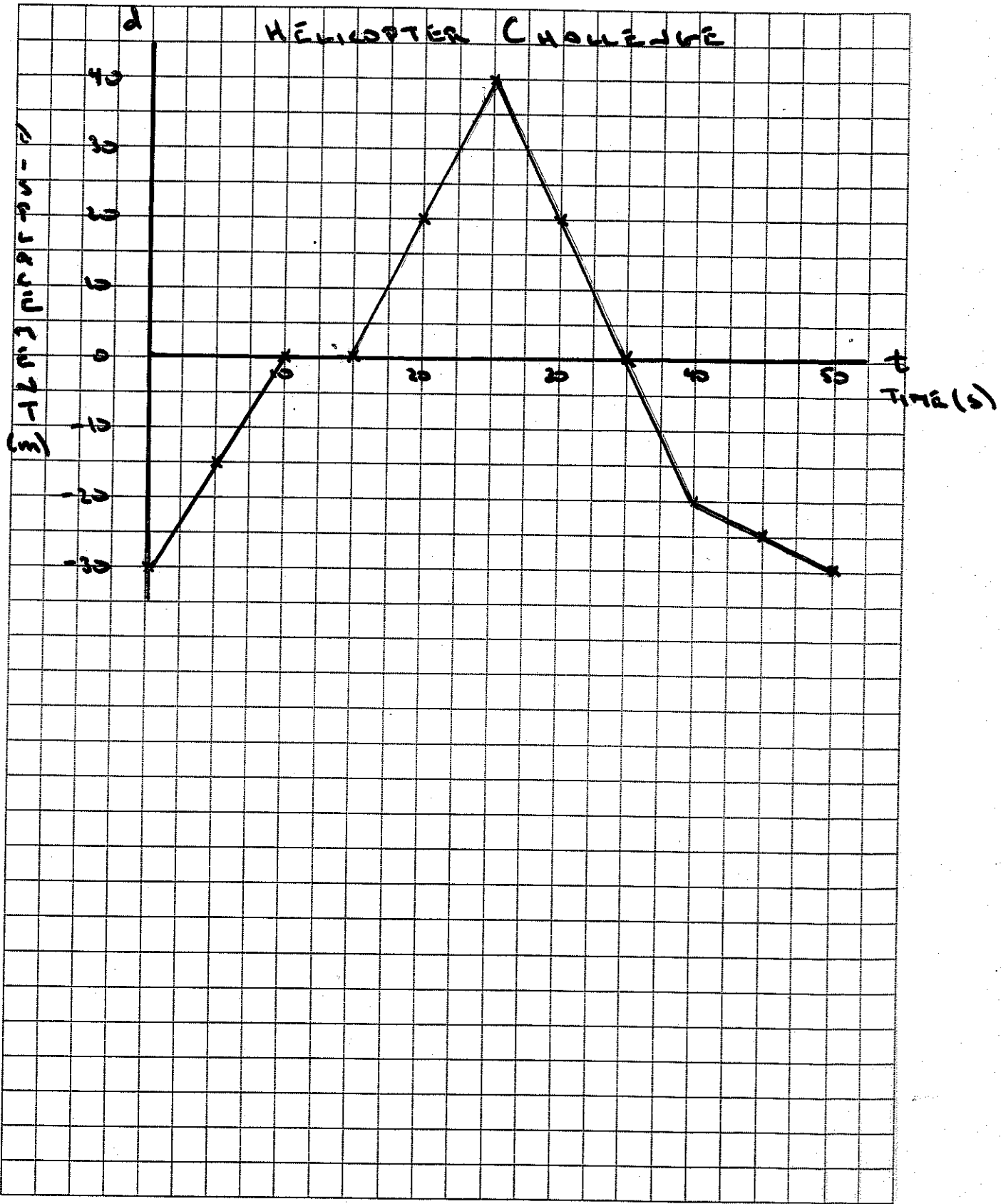


# HELICOPTER CHALLENGE



**CHAPTER 10**  
**ASSESSMENT**

BLM 10-2

**The Helicopter Challenge** (continued)

2. Write a short paragraph to describe the motion of the helicopter.

MOVES UP TO WINDOW FROM BELOW @ CONSTANT SPD.  
 HOVERS IN FRONT OF WINDOW FOR 5s. MOVES UP  
 TO 40m QUICKLY @ CONSTANT SPEED, COMES DOWN AT  
 SAME SPEED TO -20m. SLOWLY DESCENDS LAST  
 10m TO GROUND

3. When was the helicopter moving up? How do you know?

0s to 10s, 15s to 25s. POSITIVE SLOPE  
 AND INCREASING HEIGHT.

4. When was the helicopter moving down? How do you know?

25s to 50s. NEGATIVE SLOPE AND DECREASING  
 HEIGHT.

5. When might the helicopter have been stationary? Do you have enough information to be sure? Explain your answer.

10s to 15s b/c HEIGHT NOT CHANGING.  
 CAN'T BE SURE MIGHT BE MOVING HORIZONTALLY.  
 (OR COULD BE BOARING UP AND DOWN)

6. Why were you told to connect all the points on your graph with straight lines?

VELOCITY IS ASSUMED TO BE CONSTANT  
 DURING THESE INTERVALS.

7. How could you infer from the data that the helicopter landed safely?

SHALLOW SLOPE.