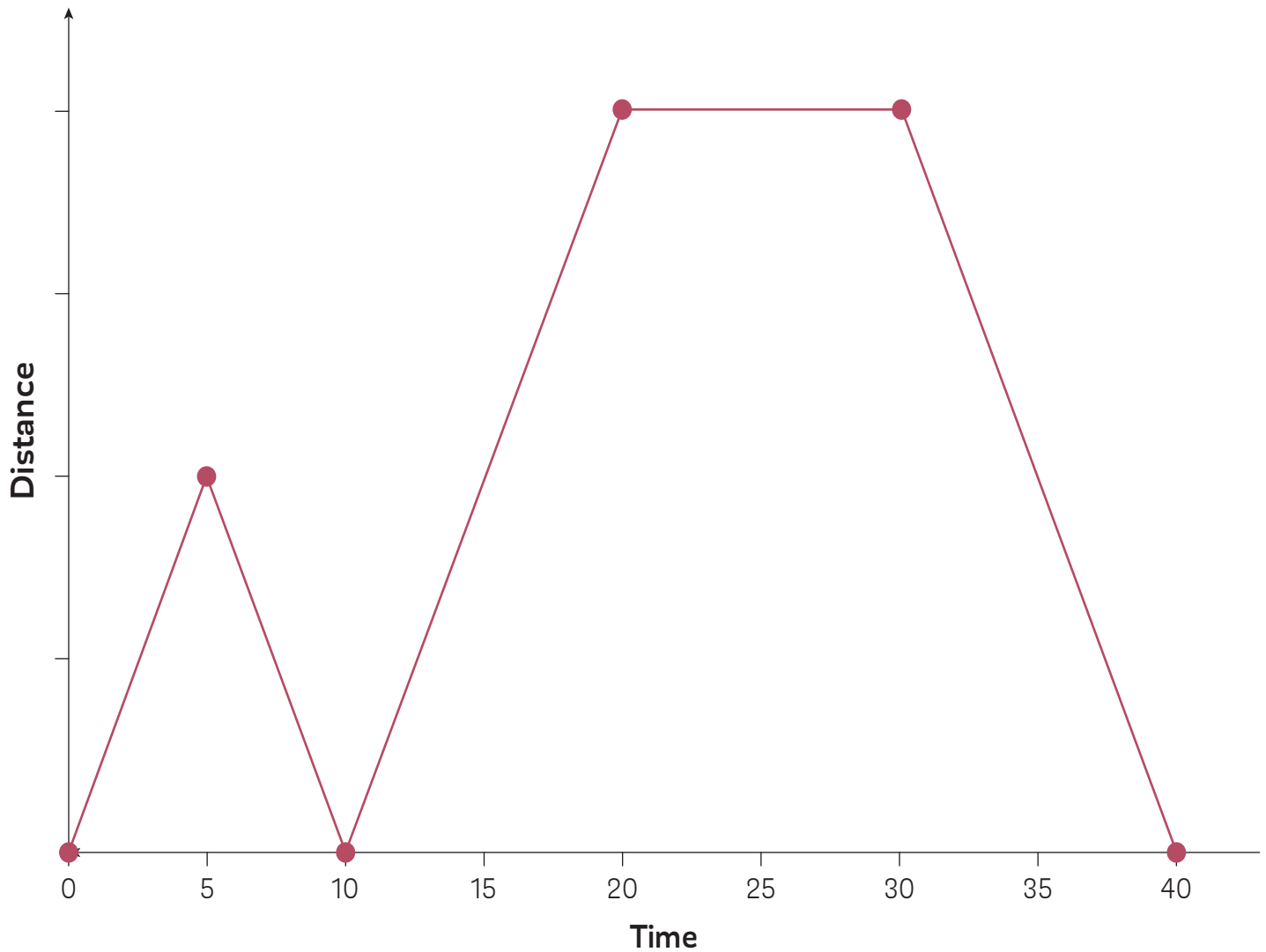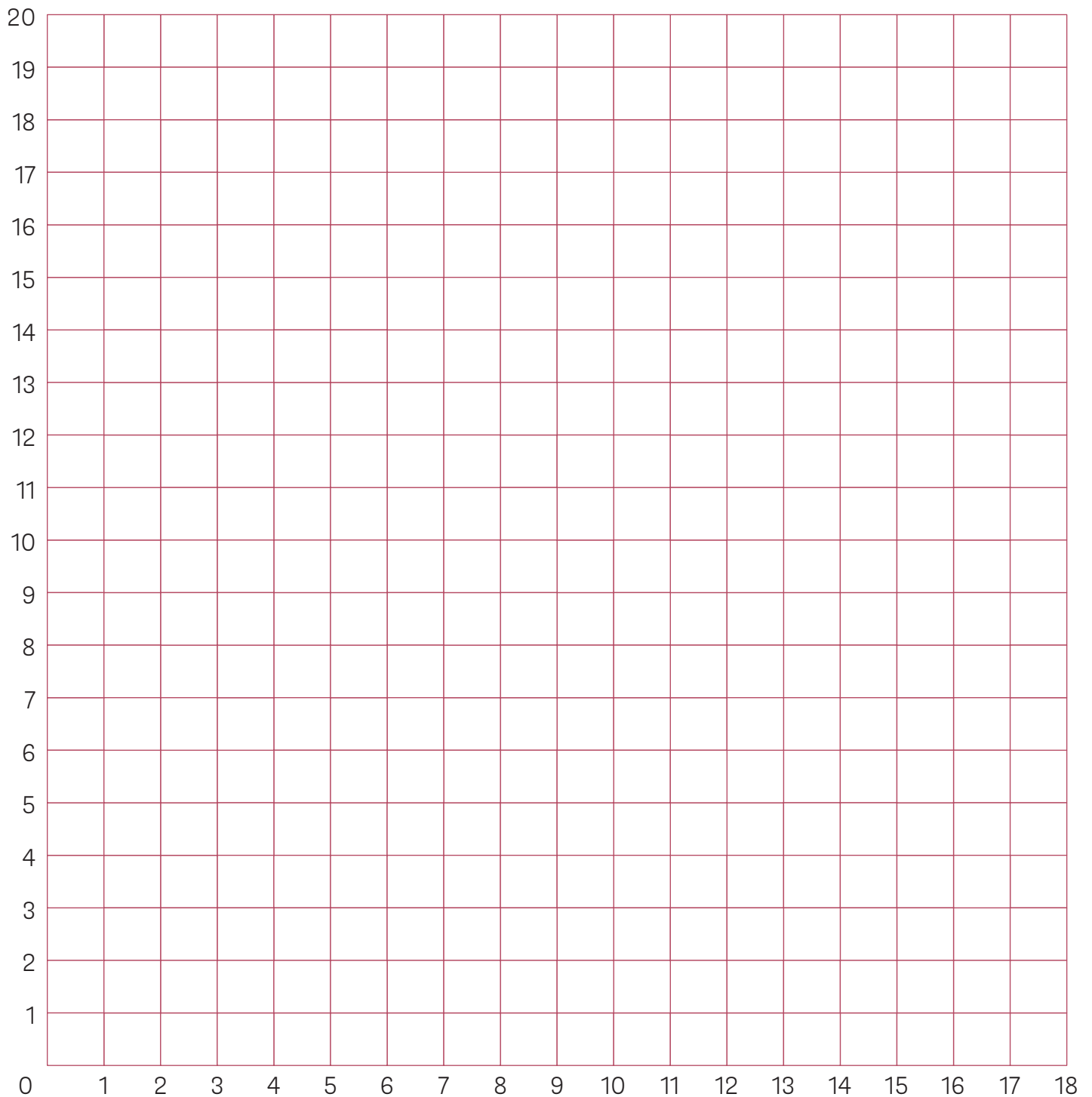## TASK 1

Write a mathematics story that explains the characteristics of the graph. Make sure your story explains intervals of increase, decrease, or neither. You can make up specific distances since the graph does not give them.
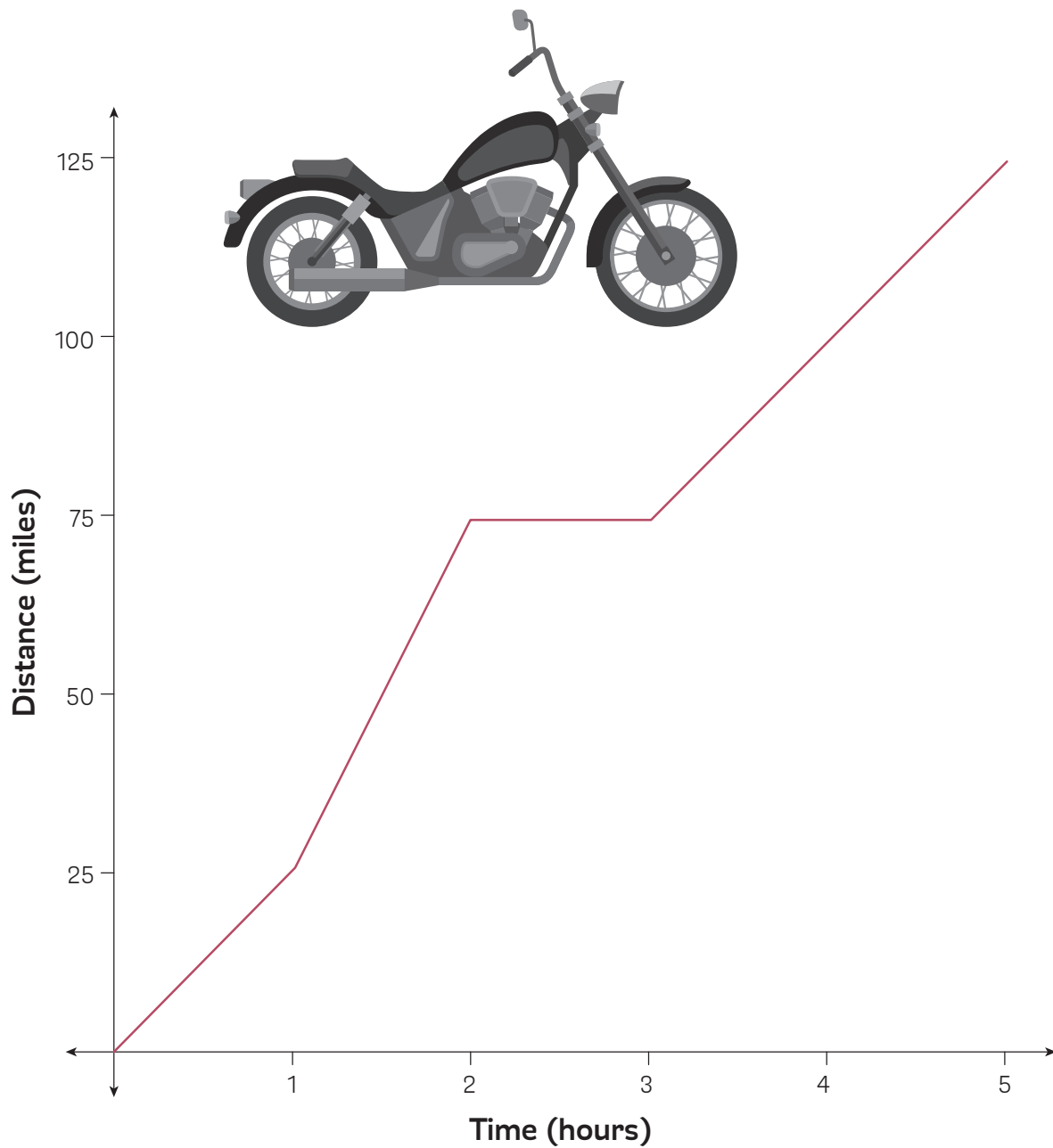
TASK 2

Use the following story to sketch a graph that shows the graphing characteristics given in the story. Be sure to label your axes.

Ben went bushwalking. He started at 8 a.m. and walked seven miles in the first two hours. After resting for 30 minutes, he walked another five miles in one hour. He spent an hour having lunch before beginning the return trip to his starting point. On the return trip, he walked without stopping for three hours.

TASK 3

Use the graph to answer the following questions.

1. Is the graph discrete or continuous?

2. From start to Hour 2, is it increasing or decreasing?

3. Where does the graph remain constant? What does this mean?

4. How far did the rider travel the last two hours?

5. How fast was the rider traveling the last two hours?