Name: Period:

Graphing Motion 1

A distance vs. time graph showing the motion of a car is below. Answer the following questions using the graph. Show all work. Include all units.

1. What was the car’s speed at 7 min.?

2. What was the car’s speed at 10 min.?

3. What was the car’s speed at 14 min.?

4. Find the average speed between 0 and 5 min.

5. Find the average speed between 5 and 11 min.

6. During what time(s) did the car have a positive acceleration?

7. At what time(s) was the car stopped?

Name: Period:

Graphing Motion 2

A speed vs. time graph showing the motion of a helicopter is below. Answer the following questions using the graph. Show all work. Include all units.

1. During what time(s) did the helicopter have a negative acceleration?

2. What was the helicopter’s acceleration at 1 sec?

3. What was the helicopter’s acceleration at 3 sec?

4. What was the helicopter’s average acceleration for the first 4 seconds?

5. During what time(s) was the helicopter moving away from its starting position?

6. Find the average acceleration between 6 and 10 sec.