

Regents Physics Homework

Name _____

1. A baseball is hit at 20.0 m/s N and travels through the air for 4.5 sec. What is its displacement?
2. A car begins at rest and then travels 10 km W turns and travels 5 km N. What is the magnitude and direction of the cars displacement?
3. A brick thrown in the air demonstrated the following info . Graph the data and answer the following questions.

Displacement (m)	Time (Sec)
0.0	0.0
1.0	1.0
1.5	2.0
1.7	3.0
1.9	4.0
2.0	5.0

- A. What kind of motion is the brick experiencing?
 - B. How can you tell?
4. A car is driven and displays the following data

Displacement (m)	Time (min)
0.0	1
2.0	2
4.0	3
6.0	4
8.0	5
8.0	6
8.0	7
8.0	8
6.5	9
6.0	10
5.5	11
5.0	12

- A. What is the magnitude of the velocity of the car between 1.0 and 4 min?
Between 5 min 7 min? Between 8 min and 12 min
- B. Describe the type of motion of the vehicle during the time periods listed in question 5a