$\qquad$
$\qquad$
(COPYING IS NOT ALLOWED!) YOU MUST SHOW ALL WORK FOR CREDIT!

1. What is your average speed in meters/second be if you traveled 220 km in 2.25 hr ?
2. A bird can fly $30 \mathrm{~km} / \mathrm{hr}$. How many hours does it take it to fly $22,000 \mathrm{~m}$ ?

3. A typical land snail's speed is 12.2 meters per hour. How many miles will the land snail travel in one day ( 24 hrs )?
4. What can you determine from the slope of graph of distance versus time?
$\square$
5. The average distance from the Earth to the Sun is 1.5 E 8 kilometers. The speed of light in a vacuum is $3.0 \mathrm{E} 8 \mathrm{~m} / \mathrm{s}$. How long in minutes does it take sunlight to travel from the sun to the Earth?

6. A person jogs eight laps around a quarter mile track in a total time of 13.5 minutes. Calculate the runner's average speed in $\mathrm{m} / \mathrm{s}$.

7. An airplane travels 2100 km at a speed of $1000 \mathrm{~km} / \mathrm{hr}$. It then encounters a headwind that slows it to $800 \mathrm{~km} / \mathrm{hr}$ for the next 1300 km. What is the average speed for this trip? (The answer is NOT $900 \mathrm{~km} / \mathrm{hr}$.)
8. Using the distance time graph below

a. Rank the walkers in order from fastest to slowest and explain how you determined this.
b. Determine the average speed of walker 1.

