

Name: \_\_\_\_\_

This work may be exhibited if my name is removed: Yes  No

**Instructions.** Always include explanations, so that other readers can tell what you did and why you did it. Never write outside the box.

**Cadillac and Toyota 1.4.** A pink Cadillac leaves Oklahoma City at 6AM headed west on I-40 with the cruise control set at  $V$  mph. A federal agent in a green Toyota follows, leaving  $d$  minutes later and traveling  $W$  mph. Does the Toyota catch up? If so, when and where?