ID: $\qquad$

Do not use any unapproved aids while taking this assessment. Read each question carefully and be sure to show all work in the space provided.

1. Suppose a car was 80 miles east of a town, traveling west at 50 mph . A second car was 135 miles north of the same town, traveling north at 45 mph . At this exact moment, how fast is the distance between the cars changing?
