

NAME \_\_\_\_\_

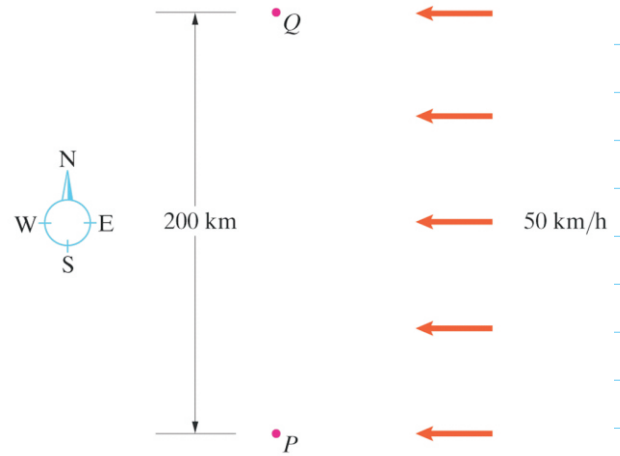
DATE \_\_\_\_\_

WEEK: \_\_\_\_\_

PROBLEM: \_\_\_\_\_

**GIVEN:**

A private pilot wishes to fly from a city  $P$  to a city  $Q$  that is 200 km directly north of city  $P$ . The airplane will fly with an airspeed of 290 km/h. At the altitude at which the airplane will be flying, there is an east wind (that is, the wind's direction is west) with a speed of 50 km/h. What direction should the pilot point the airplane to fly directly from city  $P$  to city  $Q$ ? How long will the trip take?

**REQUIRED:****SOLUTION:**