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## NAVIGATION REVIEW

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7) (from page 2) Two jet aircrafts leave an airport at the same time. The course of the first is 160° while the course of the second is 290°. If the first travels 500 mph and the second 600 mph,

- a) What is the distance between them at the end of 3 hours?
- b) What course would the first plane travel to reach the second plane in this instance?
- a) Distance = 2993.502 miles
- b) Course =  $312.6^{\circ}$
- 1) A plane flies 600 km on a course of 300°. It then flies South for a while and finally flies on a 40° course to return to its starting point. Find the total distance traveled.

Total Distance = 600 + 808.378 + 919.253 = 2327.631 km

- 2) After leaving an airport, a plane flies 1.5 hours at a speed of 200km/h on a course of 200°. Then, on a course of 340°, the plane flies for 2h at a speed of 250 km/h.
  - a) At this time, how far from the airport is the plane?
  - b) What course must the plane travel on to return to the airport?
  - a) Distance from airport = 331.944 km
  - b) Course to return =  $124.5^{\circ}$

3) Town T is 8 km Northeast of village V. City C is 4 km from T on a course of 150° from T. What is the distance between the city and the village?

Distance between C and V = 7.965 km