Warm Up

* Ambiguous

Determine the measure of the obtuse angle B:

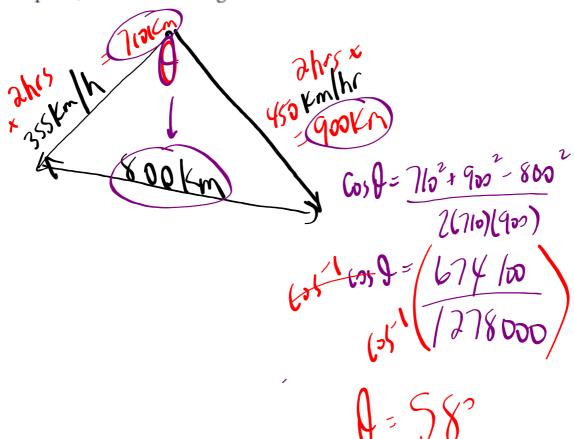
28 = 28 sin 41.

Sin B = 0.7987

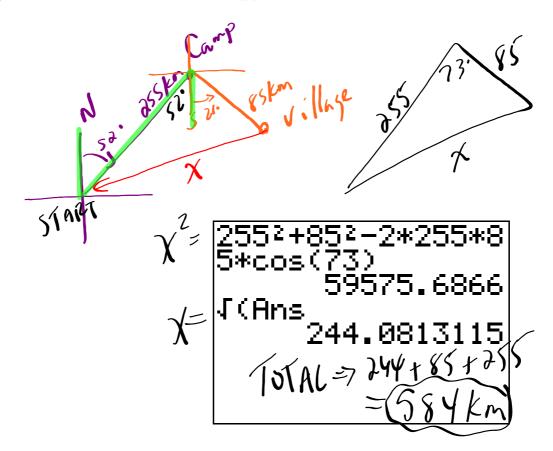
Foundations of Math 11 - March 23

9. Two airplanes leave the Hay River airport in the Northwest Territories at the same time. One airplane travels at 355 km/h. The other airplane travels at 450 km/h. About 2 h later, they are 800 km apart. Determine the angle between their paths, to the nearest degree.



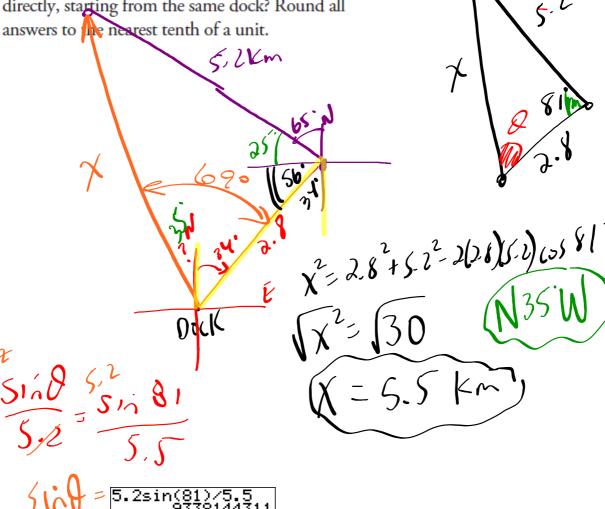


11. A bush pilot delivers supplies to a remote camp by flying 255 km in the direction N52°E While at the camp, the pilot receives a radio message to pick up a passenger at a village. The village is 85 km S21°E from the camp. What is the total distance to the nearest kilometre, that the pilot will have flown by the time he returns to his starting point?

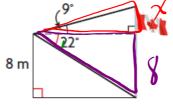


12. A canoeist starts from a dock and paddles
2.8 km N34°E. Then she paddles 5.2 km N65°W.

What distance, and in which direction, should a second canoeist paddle to reach the same location directly, starting from the same dock? Round all



10. From a window in an apartment building, the angle of elevation



to the top of a flagpole across the

street is 9°. The angle of depression is 22° to the base of the flagpole. How tall is the flagpole, to the nearest tenth of a metres

