**Cosine Law Quick Check / 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. A radar station tracks two ships. The distance to one ship is 4.6 km, and the distance to the other ship is 8 km. The angle at the radar station 105°. How far apart are the two ships? (2 marks)



1. Suppose a triangular brace used to support a bridge has side lengths of 11 m, 16 m, and 9.2 m. Use the cosine law to determine the size of the angle opposite to the 11-m side, to the nearest degree. (2 marks)

