Practice worksheet | Trigonometry

Cosine rule

Name: _____ Date: _____

6 questions | 18 marks

1. Two sides 8 cm and 8 cm enclose 60°. Find the third side. [3 marks]

2. Two sides 6 cm and 10 cm enclose 120°. Find the third side. [3 marks]

3. Find the angle opposite 7 cm in a 5-6-7 cm triangle to one decimal place. [3 marks]

4. Find the largest angle in a 13-14-15 cm triangle to one decimal place. [3 marks]

5. Two tracks leave a station 45° apart. Trains are 4 km and 7 km from it. Find their separation to two decimal places. [3 marks]

6. Can sides 2,3,6 cm form a triangle? Justify. [3 marks]