Practice worksheet | Practical trigonometry

Checking possible solutions

Name: _____ Date: _____

6 questions | 16 marks

1. Can lengths 7, 9 and 17 form a triangle? Explain. [2 marks]

2. A=30°, a=10 and b=14. How many triangles fit, and what are the candidate angles B? [3 marks]

3. A=50°, a=8 and b=13. Explain the absence of a real inverse-sine result. [3 marks]

4. A triangle has A=80° and B=40°. Which of a and b must be longer? [2 marks]

5. A length calculation gives 18.76491 m. Round to one decimal place and explain whether to round each intermediate value too. [3 marks]

6. A proposed solution gives angles 60°, 70° and 55°. State a check that rejects it. [3 marks]