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

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

4. A triangle has $A = 80^\circ$ and $B = 40^\circ$. 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]