Practice worksheet | Trigonometry

Sine rule and ambiguous cases

Name: _____ Date: _____

6 questions | 18 marks

1. A=30°, B=90°, a=6 cm. Find b. [3 marks]

2. A=45°, B=60°, a=10 cm. Find b exactly. [3 marks]

3. A=30°, a=5 cm, b=12 cm. Decide how many triangles exist. [3 marks]

4. Given $A = 30^\circ$, $a = 5$ cm, $b = 5\sqrt{2}$ cm, find all possible B,C pairs. [3 marks]

5. A=120°, a=10 cm, b=5 cm. Find B and C to one decimal place. [3 marks]

6. A survey triangle has A=40°, B=65° and a=18 m. Find b to one decimal place and explain why b>a. [3 marks]