Practice worksheet | Practical trigonometry

Sine rule

Name: _____ Date: _____

6 questions | 17 marks

1. $A = 50^\circ$, $B = 70^\circ$ and $a = 9\,\text{cm}$. Find b to one decimal place. [2 marks]

2. $A = 70^\circ$, $a = 20\,\text{cm}$ and $b = 15\,\text{cm}$. Find B to one decimal place and explain whether its supplement fits. [3 marks]

3. $A = 45^\circ$, $B = 60^\circ$ and $a = 10\,\text{m}$. Find C and c. [3 marks]

4. $A = 30^\circ$, $a = 10\,\text{cm}$ and $b = 14\,\text{cm}$. Find both B angles to one decimal place. [3 marks]

5. $A = 50^\circ$, $a = 8\,\text{cm}$ and $b = 13\,\text{cm}$. Does a triangle exist? Explain. [3 marks]

6. $A = 35^\circ$, $B = 85^\circ$ and $c = 18\,\text{m}$. Find a to one decimal place. [3 marks]