Practice worksheet | Practical trigonometry

Sine/cosine/tangent

Name: _____ Date: _____

6 questions | 13 marks

1. A right triangle has opposite leg 8 and hypotenuse 17. Find $\sin\theta$ as a fraction. [2 marks]

2. A right triangle has adjacent leg 12 and hypotenuse 13. Find $\cos\theta$. [2 marks]

3. A right triangle has opposite leg 9 and adjacent leg 4. Find $\tan\theta$. [2 marks]

4. Find the opposite leg when the adjacent leg is 14 m and $\theta = 28^\circ$. Round to one decimal place. [2 marks]

5. Find an acute angle with opposite leg 5 cm and hypotenuse 9 cm. Round to one decimal place. [2 marks]

6. A calculation gives $\sin\theta = 1.2$ for a right triangle. Can an acute angle satisfy this? Explain. [3 marks]