Practice worksheet | Pythagoras and Trigonometry

Selecting the right method

Name: _____ Date: _____

6 questions | 15 marks

1. Legs 7 and 10 are known. Which method finds the third side? Write its equation. [2 marks]

2. Hypotenuse and an acute angle are known. Which equation finds adjacent? [2 marks]

3. Opposite and hypotenuse are known. Write the expression for the acute angle. [2 marks]

4. A right triangle has one acute angle 45° but no side length. Can you find its hypotenuse? Explain. [3 marks]

5. A student uses c = a + b for legs 3 and 4. Correct the calculation. [2 marks]

6. A right triangle has legs 3 cm and 4 cm. Find the hypotenuse, then the acute angle opposite 3 cm to two decimal places. [4 marks]