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 $45^\circ$ 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]