Using Pythagoras’ Theorem

1. Find the length of $x$ in each of the triangles below. [2, 2]

(a) 

(b) 

2. A rectangular jigsaw measures 65cm by 52cm. What length is its diagonal? [2]

3. (a) Plot the points A(3, 1) and B(10, 10) (b) Make a right-angled triangle and mark in the lengths of the sides. (c) Calculate the length of AB, to 1 dp. [1, 1, 2]

4. An equilateral triangle can be split into two identical (congruent) right angled triangles, as shown here. Calculate the height, $h$ cm, of an equilateral triangle whose sides are each 18cm long. [3]