

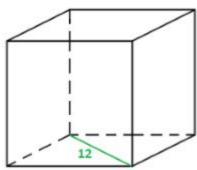
## GEOMETRY TEST - 3° ESO

Exercise 1: (1.5 ptos) Find the sides of a right-angled triangle if they are given by x-2, x+5 and x+6. The sides measure 5, 12 and 13 whatever units I'm using

## Exercise 2: (0.75 ptos) Enunciate Pythagoras' theorem

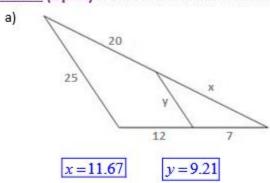
In any right-angled triangle the square of the hypotenuse equals the sum of the squares of the other two sides

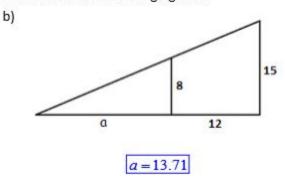
Exercise 3: (1.25 ptos) Find the axial diagonal of a cube if the diagonal of one of its faces measures 12 cm



D = 14.7 cm

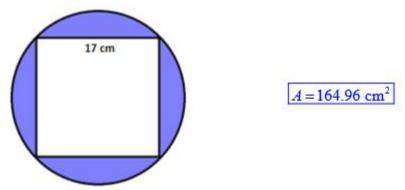
Exercise 4: (2 ptos) Work out the values of the indeterminates in the following figures:



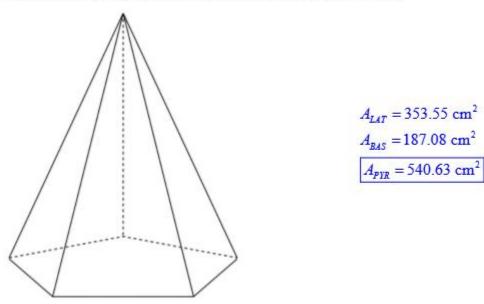




Exercise 5: (1.25 ptos) Work out the value of the shadowed area if the side of the square measures 17 cm



Exercise 6: (2 ptos) Work out the value of the area of a regular pentagonal pyramid with altitude 12 cm if the length of the side of the base is 10 cm and its edge measures 15 cm



Exercise 7: (1.25 ptos) Find the height of the Empire State Building: h = 380.56 m

