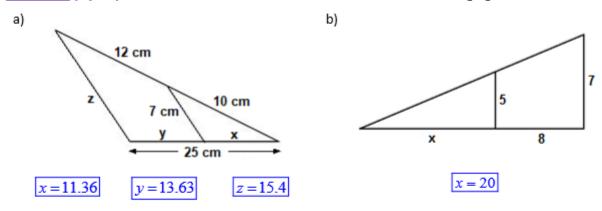
GEOMETRY TEST - 3º ESO

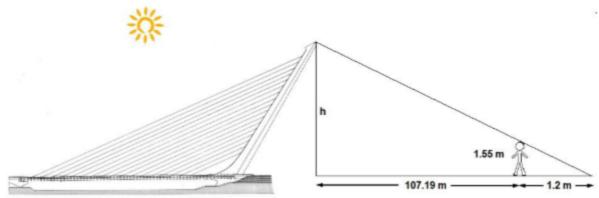
<u>Exercise 1:</u> (0.5 points) Enunciate Pythagoras' theorem In any right-angled triangle the square of the hypotenuse equals the sum of the squares of the other two sides

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



Exercise 3: (1 point) Find the axial diagonal of a cuboid with sides of length 15 cm, 17 cm and 20 cm D = 30.23 cm



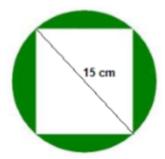


Exercise 5: (1.25 points) Work out the value of the sides of a right-angled triangle if they measure x-1, x+2, and x+5 meters The sides have lengths of 15 cm, 12 cm and 9 cm

Exercise 6: (1.25 points) Find the area of an isosceles trapezium if the bases measure 43 cm and 57 cm and the slanted side has a length of 30 cm $A_T = 1458.51 \text{ cm}^2$

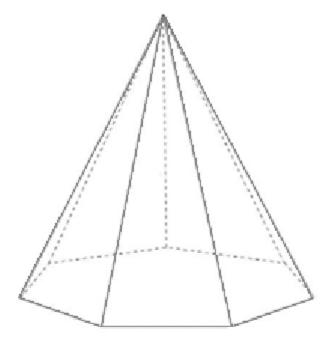


Exercise 7: (1.25 points) Work out the value of the shadowed area between the circle and the square:



 $A_T = 64.21 \text{ cm}^2$

Exercise 8: (1.75 points) Work out the value of the area of a heptagonal pyramid with altitude 12 cm if the length of the side of the base is 25 cm and the edge of the faces measures 20 cm.



 $A_{LAT} = 1366.09 \text{ cm}^2$ $A_{RASE} = 873.56 \text{ cm}^2$ $A_{PYR} = 2239.65 \text{ cm}^2$

