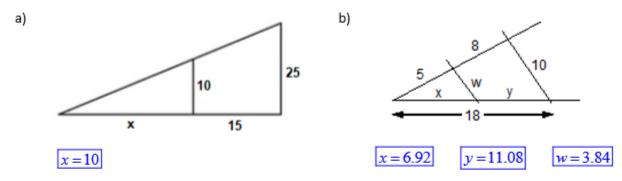
GEOMETRY TEST - 2° ESO

Exercise 1: (1.5 ptos) Find the sides of a right-angled triangle knowing that they measure x-2, x+5 and x+6 cm

The sides measure 13 cm, 12 cm and 5 cm

Exercise 2: (2 ptos) Find the value of the unknowns:



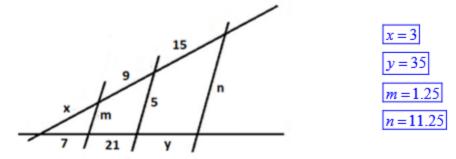
Exercise 3: (0.75 ptos) Find the height of the Space Needle, in Seattle, if I am standing 50 m away from it and knowing that at a certain moment of the day our shadows coincide. You also have to know that I am 1.55 m high and my shadow measures 42 cm h = 186.07 m

Exercise 4: (1 pto) Find the area of a right-angled trapezium if the bases measure 15 cm and 25 cm and the slanted side has a length of 17 cm $A = 274.99 \text{ cm}^2$

Exercise 5: (1.25 ptos) Find the area of the region between a circle and regular octagon with sides of length 5 cm and radius of length 8 cm inscribed within

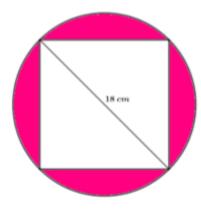


Exercise 6: (1.5 ptos) Find the values of the unknowns:





Exercise 7: (1.25 ptos) Find the area of the shadowed region between the circle and the square if its diagonal measures 18 cm



$$A_{SQU} = 162 \text{ cm}^2$$

 $A_{CIR} = 254.47 \text{ cm}^2$
 $A_{TOT} = 92.47 \text{ cm}^2$

Exercise 8: (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

