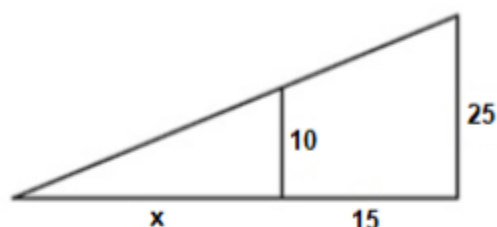


GEOMETRY TEST – 2º ESO

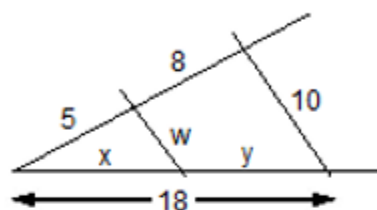
Exercise 1: (1.5 pts) Find the sides of a right-angled triangle knowing that they measure $x-2$, $x+5$ and $x+6$ cm

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

a)



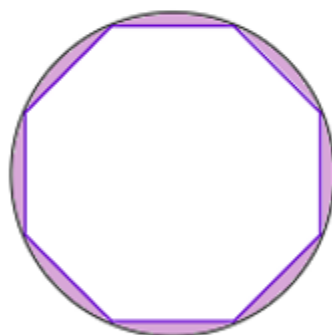
b)



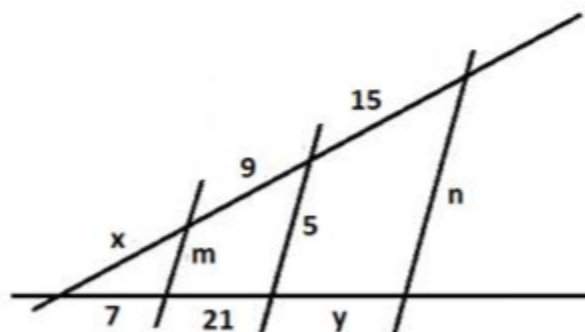
Exercise 3: (0.75 pts) Find the height of the Space Needle, in Seattle, if I am standing 50 m away from it and knowing that at a certain moment of the day our shadows coincide. You also have to know that I am 1.55 m high and my shadow measures 42 cm.

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

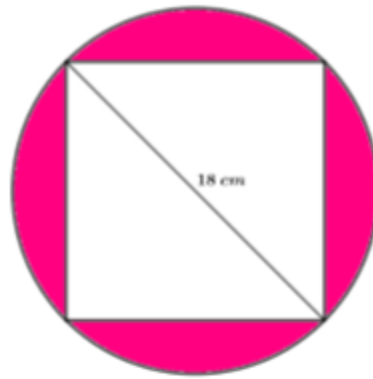
Exercise 5: (1.25 pts) Find the area of the region between a circle and regular octagon with sides of length 5 cm and radius of length 8 cm inscribed within



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



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



Exercise 8: (0.75 pts) Enunciate Pythagoras' theorem

