

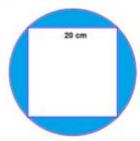
## GEOMETRY TEST



Exercise 1: (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 2: (1.25 ptos) Find the area of the shadowed region between the circle and the square if its side measures 20 cm



 $A = 228.32 \text{ cm}^2$ 

Exercise 3: (1 pto) Find the area of a right-angled trapezium if the bases measure 15 cm and 23 cm and the slanted side has a length of 12 cm  $A = 169.88 \text{ cm}^2$ 

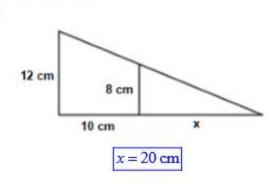
Exercise 4: (1.25 ptos) Find the area of the region between a circle and regular octagon with sides of length 13 cm and radius of length 17 cm inscribed within



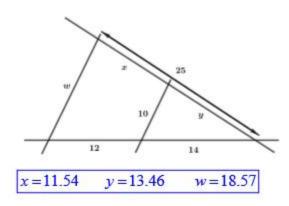
 $A = 91.09 \text{ cm}^2$ 

Exercise 5: (2 ptos) Find the value of the unknowns:





b)

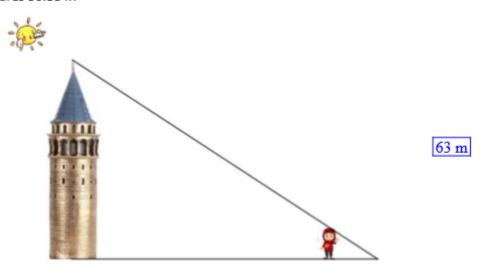




Exercise 6: (1.5 ptos) Find the sides of a right-angled triangle knowing that they measure x, x+1 and x-7 cm

The sides measure 13 cm, 12 cm and 5 cm

Exercise 7: (0.75 ptos) Find the height of the Galata Kulesi in İstanbul, knowing that my height is 1.53 m and at a certain moment of a very sunny day my shadow measures 75 cm and the shadow of the tower measures 30.88 m



Exercise 8: (1.5 ptos) Find the values of the unknowns x, y, z and w:

