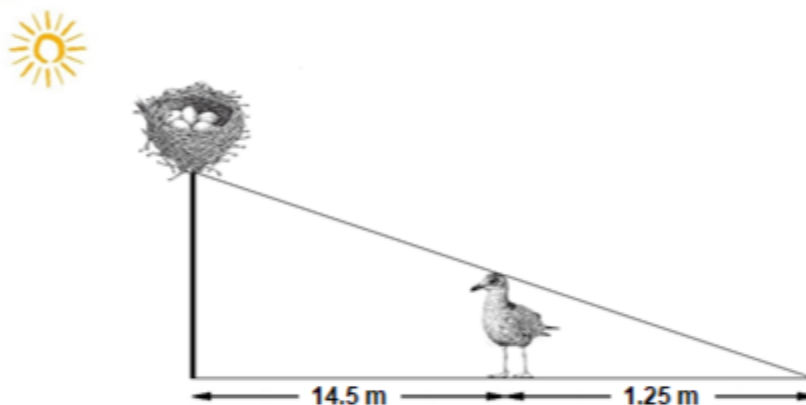# INTERCEPT AND PYTHAGORAS' THEOREMS TEST - 2º ESO
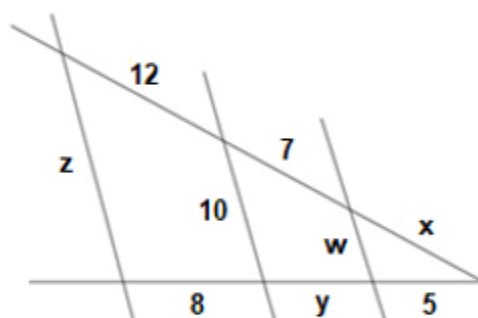
Exercise 1: (0.75 ptos) Enunciate Pythagoras' theorem:

Exercise 2: (1 pto) Find the height of the nest knowing that my seagull is 57 cm high:
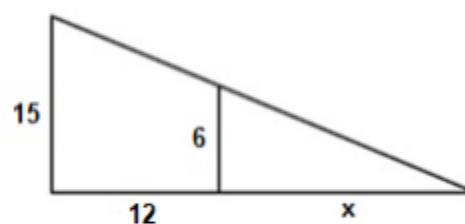

← 14.5 m → ← 1.25 m →

Exercise 3: (2.5 ptos) Find the values of the indeterminates:

a)

b)

Exercise 4: (1 pto) Find the distance I am standing from the base of the Eiffel Tower, on a sunny summer day, knowing that it has a height of 300 m, my height is of 1.53 m and at that moment my shadow measures 1.1 m

Exercise 5: (1.25 ptos) Find the area of an isosceles trapezium knowing that its bases measure 24 cm and 37 cm and the slanted side has a length of 10 cm

Exercise 6: (1.5 ptos) Find the sides of a right-angled triangle knowing that they measure $x-4$ cm, $x+2$ cm and $x-1$ cm

Exercise 7: (0.75 ptos) Find the area of the shadowed region between the square and the circle:

15 cm

Exercise 8: (1.25 ptos) Find the area of the shadowed region if the side of the regular heptagon measures 6 cm and its radius measures 7 cm:

PS: My seagull wants to sue me because I won't leave her alone. She says that this is on the verge of exploitation :(