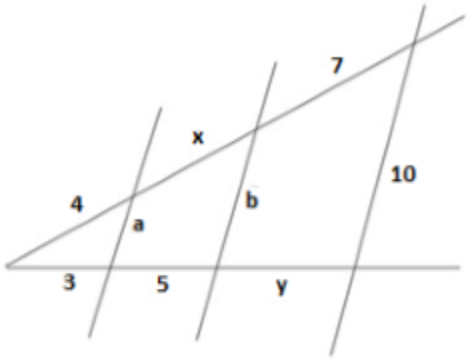
PYTHAGORAS' THEOREM AND 2-D SHAPES - 2º ESO

Exercise 1: **(0.75 points)** Enunciate Pythagoras' theorem

Exercise 2: **(1.75 points)** Work out the values of the unknown lengths in the following figure:

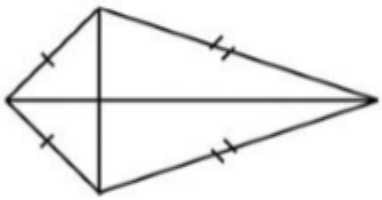


Exercise 3: **(1.5 points)** Work out the area of a regular nonagon if its side is 12cm and its radius is 15cm

Exercise 4: **(1 point)** Work out the area of an isosceles trapezium if the bases are 16cm and 20cm and the equal sides are 7cm

Exercise 5: **(1.25 points)** Calcula mi sombra sabiendo que mido 1.55m, que me encuentro a 3.25m de un árbol de 7.82m de altura y que los extremos de las dos sombras coinciden.
Nota: NO es de noche y NO está nublado.

Exercise 6: **(1.5 points)** Find the area of this kite knowing that the sides are 13cm and 20cm and the smaller diagonal is 18cm



Exercise 7: **(0.75 points)** Un estanque tiene forma de círculo de radio 12m con una plataforma rectangular de cemento de 5x6m en el centro, donde habitan diversas variedades de patos y gansos, y un pavo real. Calcula la superficie del agua que hay en el estanque.

Exercise 8: **(1.5 points)** Work out the area of the shaded region between the circle and the square.