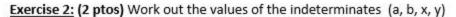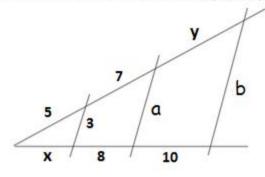# GEOMETRY, THALES AND PYTHAGORAS THEOREMS TEST – 2° ESO

Exercise 1: (0.75 ptos) Enunciate Pythagoras' theorem

Exercise 2: (2 ptos) Work out the values of the indeterminates (a, b, x, y)
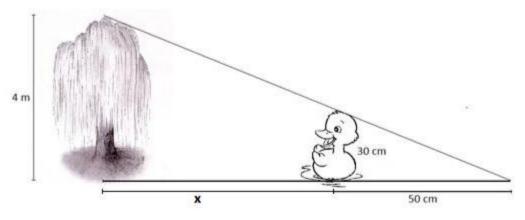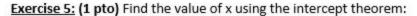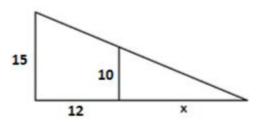

Exercise 3: (1 pto) Find the area of an annulus with radiuses 5 cm and 7 cm

Exercise 4: (1 pto) It is very hot and the duckling wants to take shelter under the tree. What's the distance between them?
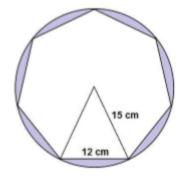

Exercise 5: (1 pto) Find the value of x using the intercept theorem:

Exercise 6: (2 ptos) Find the area of the shadowed region between the circle and the heptagon if the radius has a length of 15 cm and the side measures 12 cm

Exercise 7: (1.25 ptos) Find the area of an isosceles trapezium if the bases measure 37 cm and 22 cm and the slanted side has a length of 9 cm

Exercise 8: (1 pto) Bran is flying a kite. He lets out 100 m of rope and notices that the kite is 75 m high above the ground. How far is Bran from the perpendicular of the kite?