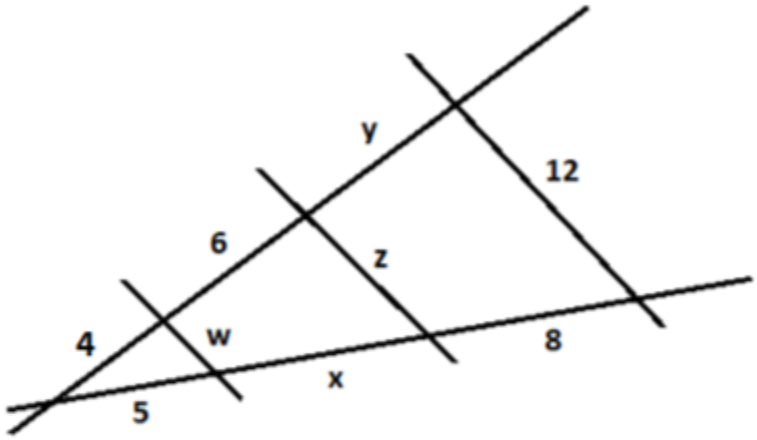
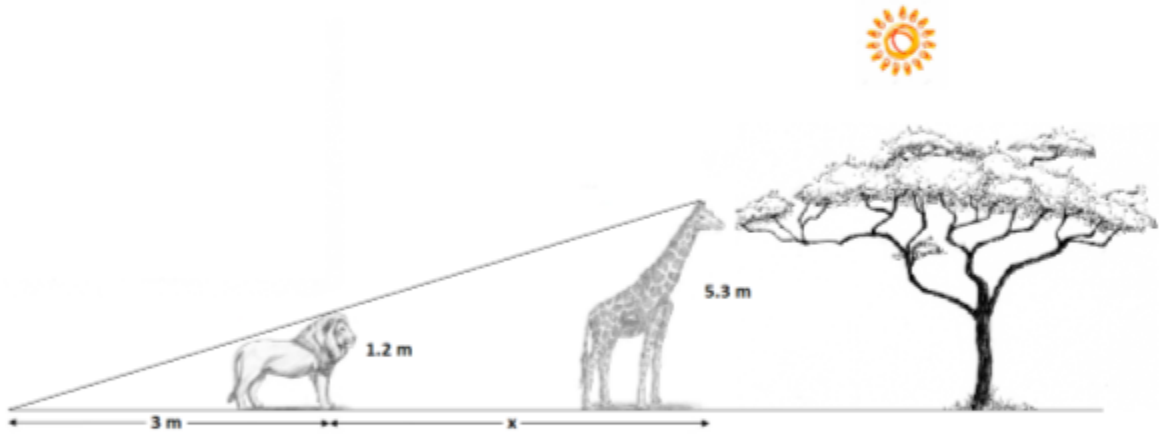
GEOMETRY TEST – 2° ESO

Exercise 1: (1.5 points) Find the value of the indeterminates:



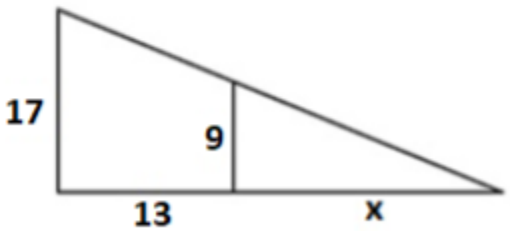
Exercise 2: (1 point) A squirrel is running towards a tree trying to get away from the sun. If the squirrel is 17 cm high, its shadow measures 5 cm and the shadow of the tree has a length of 1.25 m, what's the height of the tree?

Exercise 3: (1 point) Find the distance between the lion and the giraffe:

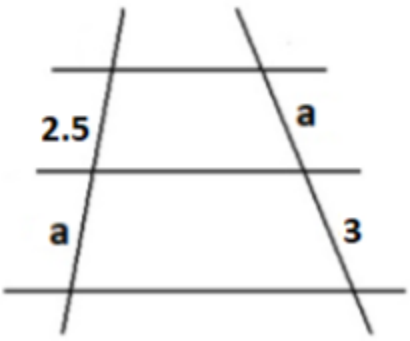


Exercise 4: (1.5 points) Find the value of the unknowns:

a)

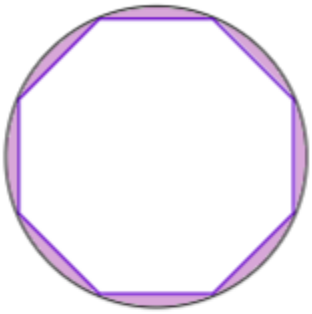


b)



Exercise 5: **(1 point)** Find the area of an isosceles trapezium if the bases have lengths of 20 cm and 30 cm and the slanted side measures 8 cm

Exercise 6: **(1.5 points)** Find the area of the region between a circle and regular octagon with side of length 10 cm and radius of length 16 cm inscribed within



Exercise 7: **(1 point)** Find the area of a rhombus if the sides measure 7 cm and the shortest diagonal has a length of 10 cm

Exercise 8: **(1.5 points)** Find the sides of a right-angled triangle knowing that they measure $x-1$, $x+6$ and $x+7$ cm