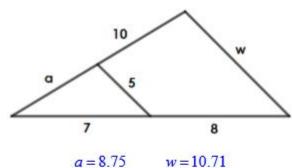


THIRD TERM GLOBAL TEST

2º ES0

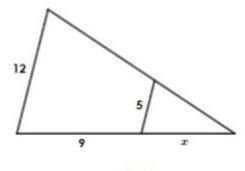
Exercise 1: (2 points) Work out the values of the indeterminates:

a)



a = 8.75

b)



x = 6.43

Exercise 2: (4 points) Solve the following systems of equations using the indicated method:

Substitution

a)
$$4x-5y=3$$

 $2x-y=9$ \rightarrow $x=7$
 $y=5$

(1)

Elimination

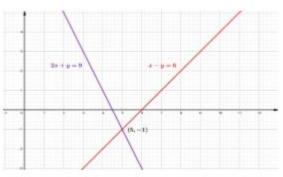
b) 2x-6y=10 3x-9y=15 \rightarrow The system has an infinite number of solutions

(0.75)

Graphically

c)
$$x-y=6$$

 $2x+y=9$



(1.25)

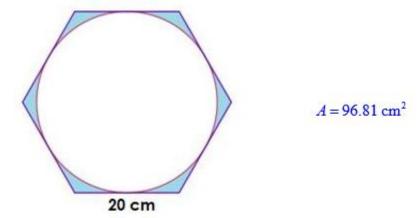
Whatever

d)
$$3x+4y=11$$

 $5x-3y=-1$ \rightarrow $x=1$
 $y=2$ (1)



Exercise 3: (1.25 points) Work out the area of the region between a circle and a regular hexagon if its side measures 20 cm.



Exercise 4: (1.5 points) Find the sides of a right-angled triangle if we know that their lengths are given by x-5, x+2 and x+3

The sides of the triangle measure 5 cm, 12 cm and 13 cm

Exercise 5: (1.25 points) Find the area of this kite if the sides measure 8 cm and 15 cm and the smallest diagonal measures 10 cm

