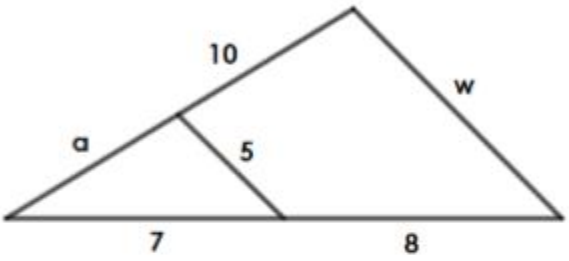
THIRD TERM GLOBAL TEST

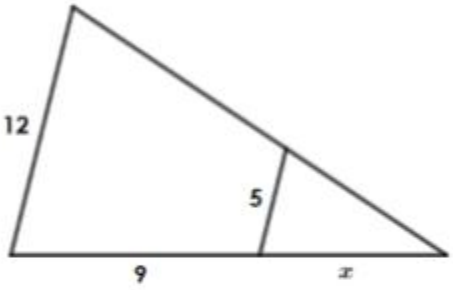
2º ESO

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

a)



b)



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

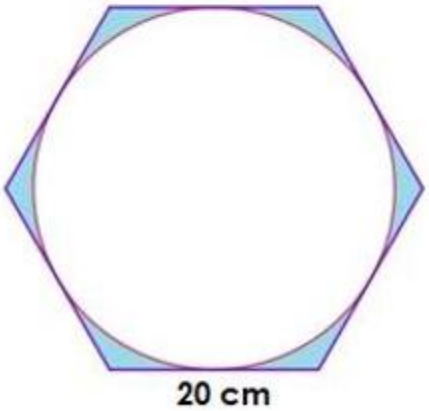
a) $\left.\begin{matrix}4x-5y=3\\2x-y=9\end{matrix}\right\}$ Substitution (1)

b) $\left.\begin{matrix}2x-6y=10\\3x-9y=15\end{matrix}\right\}$ Elimination (0.75)

c) $\left.\begin{matrix}x-y=6\\2x+y=9\end{matrix}\right\}$ Graphically (1.25)

d) $\left.\begin{matrix}3x+4y=11\\5x-3y=-1\end{matrix}\right\}$ Whatever (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 $x+3$

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