

1. Draw triangle $A B C$ where $A=(6,12) \quad B=(18,6)$ and $C=(0,24)$
2. Find lengths of : AB

BC

CA
3. Find MID POINT of : AB

BC
CA
4. Find Gradient of : AB

BC

CA
5. Find EQUATIONS of : AB

BC
CA
6. Find equations of MEDIANS A to BC

B to AC

C to AB
7. Find the coordinates of the point of intersection of the medians. (you only need to use 2 equations)
8. Calculate the intersection of the lines: $\quad 4 x+3 y=62$

$$
2 x-y=6
$$

Use graphic calculator.


1. Draw triangle $A B C$ where $A=(6,12) \quad B=(18,6)$ and $C=(0,24)$
2. Find lengths of : $\mathrm{AB}^{2}=12^{2}+6^{2}$ so $\mathrm{AB}=13.4$

$$
\begin{array}{ll}
\mathrm{BC}^{2}=18^{2}+18^{2} & \text { so } \mathrm{BC}=25.5 \\
\mathrm{CA}^{2}=12^{2}+6^{2} & \text { so } \mathrm{CA}=13.4
\end{array}
$$

3. Find MID POINT of : $\mathrm{AB}(12,9)$

BC $(9,15)$
CA $(3,18)$
4. Find Gradient of : $\quad \mathrm{AB}-1 / 2$

BC -1

CA -2
5. Find EQUATIONS of : AB $\quad y=-1 / 2 x+15$

BC $\quad y=-x+24$
CA $y=-2 x+24$
6. Find equations of MEDIANS A to BC $y=x+6$

B to AC $\quad \mathrm{y}=-4 / 5 \mathrm{x}+20.4$
$C$ to $A B \quad y=-5 / 4 x+24$
7. Find the coordinates of the point of intersection of the medians.
(you only need to use 2 equations)
$(8,14)$

$$
\begin{aligned}
\mathrm{x}+6 & =-5 / 4 \mathrm{x}+24 \\
4 \mathrm{x}+24 & =-5 \mathrm{x}+96 \\
9 \mathrm{x} \quad & =72 \\
\mathrm{x} & =8 \quad \mathrm{y}=14
\end{aligned}
$$

8. Calculate the intersection of the lines : $\quad 4 x+3 y=62$

$$
2 x-y=6
$$

Use graphic calculator.

$$
x=8 \quad y=10
$$

