

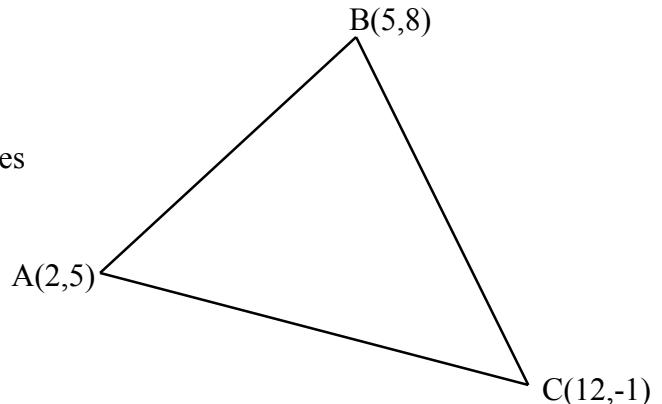
Equation of a line

Medians

1. The diagram shows triangle ABC with vertices

$A(2,5)$, $B(5,8)$ and $C(12, -1)$.

Find the equation of the median from B.

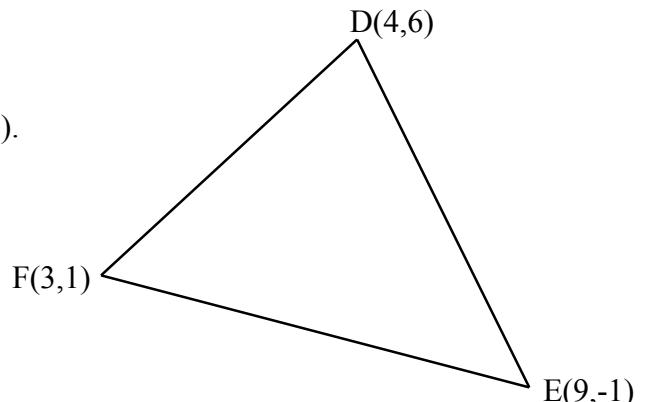


2. A triangle has vertices $P(0,-4)$, $Q(7,3)$ and $R(-3,7)$.

Find the equation of the median from P to the line QR.

3. A triangle has vertices $D(4,6)$, $E(9,-1)$ and $F(3,1)$.

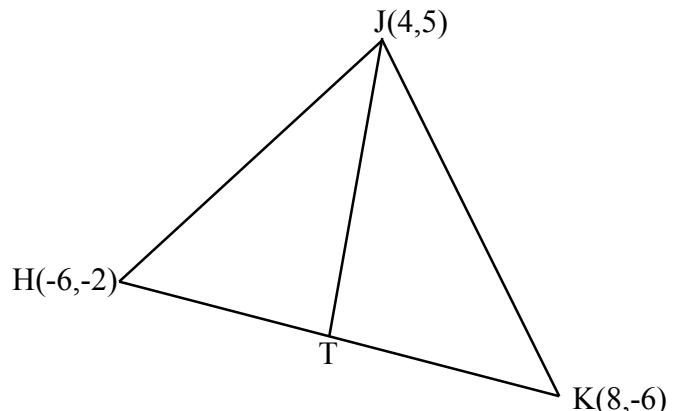
Find the equation of the median drawn from D.



4. HJK is a triangle with vertices $H(-6,-2)$,

$J(4,5)$ and $K(8,-6)$.

Find the equation of the median JT.



5. A triangle has vertices $M(4,1)$, $N(2,9)$ and $P(-6,-7)$.

Find the equation of the median from N .

$A(5,4)$

6. The diagram shows a triangle ABC .

Find the equation of the median AD .

$B(-1,2)$

D

$C(11,-4)$

7. A triangle has vertices $M(-6,-3)$, $N(4,5)$ and $P(10,-11)$.

Find the equation of the median from M to NP .

$X(2,10)$

8. Find the equation of the median XW in

triangle XYZ .

$Y(-6,-2)$

W

9. A triangle has vertices $A(1,1)$, $B(3,5)$ and

$C(11,1)$.

(a) Find the equations of the medians
 AD and BE .

(b) AD and BE intersect at M .
Find the coordinates of M .

$A(1,1)$

$B(3,5)$

D

M

E

$C(11,1)$

10. PQR is a triangle with P(4,1), Q(8,1) and R(6,-2).

- (a) Find the equation of the median from R.
- (b) Find the equation of the median from P.
- (c) Find the coordinates of the point of intersection of these lines.