

Equation of a Median

Name			
Score			

MC:12

1) A, B and C are vertices of \triangle ABC. If \overline{AD} is the median of the triangle, find the equation of the median \overline{AD} .

A(x, y)	B(x , y)	C(x , y)	D(x , y)	Equation of median AD
(4,3)	(1,2)	(5 , 6)		
(-2,-1)	(-7, -4)	(-1 , -8)		
(-6,0)	(9, –5)	(0,4)		

2) P, Q and R are vertices of \triangle PQR. If \overline{QS} is the median of the triangle, find the equation of the median \overline{QS} .

P(x , y)	Q(x , y)	R(x , y)	S(x , y)	Equation of median QS
(10,0)	(-2,5)	(-6,-1)		
(-4, -4)	(7,3)	(-2,8)		
(11,9)	(2,-3)	(5,5)		

3) F, G and H are vertices of \triangle FGH. If $\overline{\text{HE}}$ is the median of the triangle, find the equation of the median $\overline{\text{HE}}$.

F(x , y)	G(x , y)	H(x , y)	E(x , y)	Equation of median HE
(-3,6)	(2,-1)	(0,4)		
(5,-2)	(-4,-7)	(-1,1)		
(-8, -1)	(0,1)	(3, –5)		



Equation of a MedianAnswer key

Name _.		
Score		

MC:12

1) A, B and C are vertices of \triangle ABC. If \overline{AD} is the median of the triangle, find the equation of the median \overline{AD} .

A(x, y)	B(x , y)	C(x , y)	D(x , y)	Equation of median AD
(4,3)	(1,2)	(5 , 6)	(3,4)	x +y = 7
(-2,-1)	(-7, -4)	(-1,-8)	(-8, -6)	5x - 6y = -4
(-6,0)	(9, –5)	(0,4)	$\left(\frac{9}{2}, -\frac{1}{2}\right)$	x - 21y = -6

2) P, Q and R are vertices of \triangle PQR. If \overline{QS} is the median of the triangle, find the equation of the median \overline{QS} .

P(x, y)	Q(x , y)	R(x , y)	S(x , y)	Equation of median QS
(10,0)	(-2,5)	(-6,-1)	$\left(2,-\frac{1}{2}\right)$	11x + 8y = 18
(-4, -4)	(7,3)	(-2,8)	(-3,2)	x - 10y = -23
(11,9)	(2,-3)	(5,5)	(8,7)	5x - 3y = 19

3) F, G and H are vertices of \triangle FGH. If $\overline{\text{HE}}$ is the median of the triangle, find the equation of the median $\overline{\text{HE}}$.

F(x , y)	G(x , y)	H(x , y)	E(x , y)	Equation of median HE
(-3,6)	(2,-1)	(0,4)	$\left(-\frac{1}{2},\frac{5}{2}\right)$	3x - y = -4
(5,-2)	(-4,-7)	(-1,1)	$\left(\frac{1}{2}, -\frac{9}{2}\right)$	11x + 3y = −8
(-8, -1)	(0,1)	(3,-5)	(-4,0)	5x + 7y = -20