



Equation of a Median

Name _____

Score _____

MC:11

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

A(x, y)	B(x, y)	C(x, y)	D(x, y)	Equation of median \overline{BD}
(7, 10)	(-2, -3)	(1, -4)		
(-1, -8)	(-6, 5)	(3, 0)		
(3, -2)	(4, 4)	(-2, -1)		

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

P(x, y)	Q(x, y)	R(x, y)	S(x, y)	Equation of median \overline{RS}
(-6, -1)	(0, -3)	(9, 2)		
(4, 5)	(-10, 4)	(7, -1)		
(3, -8)	(1, 1)	(-2, 0)		

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

F(x, y)	G(x, y)	H(x, y)	E(x, y)	Equation of median \overline{FE}
(4, 9)	(-10, 6)	(2, -12)		
(-1, -7)	(5, 8)	(-9, 4)		
(2, 3)	(6, 5)	(1, 2)		



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Answer key

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

A(x, y)	B(x, y)	C(x, y)	D(x, y)	Equation of median \overline{BD}
(7, 10)	(-2, -3)	(1, -4)	(4, 3)	$x - y = 1$
(-1, -8)	(-6, 5)	(3, 0)	(1, 4)	$x + 7y = 29$
(3, -2)	(4, 4)	(-2, -1)	$\left(\frac{1}{2}, -\frac{3}{2}\right)$	$11x - 7y = 16$

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

P(x, y)	Q(x, y)	R(x, y)	S(x, y)	Equation of median \overline{RS}
(-6, -1)	(0, -3)	(9, 2)	(-3, -2)	$x - 3y = 3$
(4, 5)	(-10, 4)	(7, -1)	$\left(-3, \frac{9}{2}\right)$	$11x + 20y = 57$
(3, -8)	(1, 1)	(-2, 0)	$\left(2, -\frac{7}{2}\right)$	$7x + 8y = -14$

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

F(x, y)	G(x, y)	H(x, y)	E(x, y)	Equation of median \overline{FE}
(4, 9)	(-10, 6)	(2, -12)	(-4, -3)	$3x - 2y = -6$
(-1, -7)	(5, 8)	(-9, 4)	(-2, 6)	$13x + y = -20$
(2, 3)	(6, 5)	(1, 2)	$\left(\frac{7}{2}, \frac{7}{2}\right)$	$x - 3y = -7$