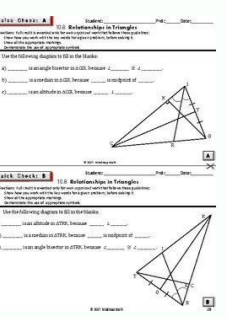


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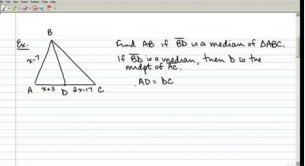
HOMEWORK:

6.3 Worksheet - Medians and Altitudes of Triangles

Name	Example	Point of Concurrence	Special Property	Example
perpendicular bisector		circumcenter	The circumcenter P of $\triangle ABC$ is equidistant from each vertex.	
angle bisector		incenter	The incenter I of $\triangle ABC$ is equidistant from each side of the triangle.	
median		centroid	The centroid G of $\triangle ABC$ is two-thirds of the distance from each vertex to the midpoint of the opposite side.	
altitude		orthocenter	The lines containing the altitudes of $\triangle ABC$ are concurrent at the orthocenter H.	



<p>Median of a Triangle</p> <p>The median of a triangle is a segment from a <u>vertex</u> to the <u>midpoint of the opposite side</u>. The three medians of a triangle are concurrent. The point of concurrency, called the <u>Centroid</u>, is <u>inside</u> the triangle.</p>	<p>Centroid Theorem</p> <p>The centroid of a triangle is <u>two-thirds</u> of the distance from each vertex to the <u>midpoint</u> of the opposite side.</p> <p>$PE = \frac{2}{3} AP$ $PB = \frac{2}{3} (PP)$ $CP = \frac{2}{3} (S, 30)$</p>	<p>Orthocenter</p> <p>The lines containing the altitudes of a triangle are concurrent. This point of concurrency is the orthocenter of the triangle. The lines containing AP, BB and CE meet at the orthocenter G of $\triangle ABC$.</p>	<p>Altitude of a Triangle</p> <p>An altitude of a triangle is the <u>perpendicular segment</u> from a <u>vertex</u> to the opposite side or to the line that contains the opposite side.</p>
<p>In $\triangle RST$, point Q is the centroid, and $VQ = 5$. Find RQ and RV.</p>	<p>Find the coordinates of the centroid of $\triangle ABC$ with vertices $A(0, 4)$, $B(-4, -2)$, and $C(7, 1)$.</p> <p>1) Find midpoints 2) Connect them to vertices. 3) Find point of concurrency. Where do they intersect?</p> <p>Centroid at $(1, 1)$</p>	<p>Find the coordinates of the orthocenter for $\triangle ABC$ with vertices $A(0, 3)$, $B(0, -2)$, and $C(6, -3)$.</p> <p>orthocenter $(3, -3)$</p>	<p>Find the coordinates of the orthocenter of $\triangle DEF$ with vertices $D(0, 6)$, $E(-4, -2)$, and $F(4, 6)$.</p> <p>Slope of $FE = 1$ Slope of $DE = \frac{2}{3} = \frac{2}{3} \cdot -2$</p> <p>orthocenter $(4, 0)$</p>



Medians and altitudes of triangles answer key.

Transcript Name 5-4 Class Date Reteaching Medians and Altitudes A median of a triangle is a segment that runs from one vertex of the triangle to the midpoint of the opposite side. The point of concurrency of the medians is called the centroid. The medians of $\triangle ABC$ are AM , CX , and BL . The centroid is point D. An altitude of a triangle is a segment that runs from one vertex perpendicular to the line that contains the opposite side. The orthocenter is the point of concurrency for the altitudes. An altitude may be inside or outside the triangle, or a side of the triangle. The altitudes of $\triangle QRS$ are QT , RU , and SN . The orthocenter is point V. Determine whether AB is a median, an altitude, or neither. 1. 2. 3. 4. 5. Name the centroid. 6. Name the orthocenter. Prentice Hall Geometry • Teaching Resources Copyright © by Pearson Education, Inc., or its affiliates. All Rights Reserved. 39 Name Class Date Reteaching (continued) 5-4 Medians and Altitudes The medians of a triangle intersect at a point two-thirds of the distance from a vertex to the opposite side. This is the Concurrency of Medians Theorem. CJ and AH are medians of $\triangle ABC$ and point F is the centroid. $2CF = CJ$ 3 Point F is the centroid of $\triangle ABC$. If $CF = 30$, what is CJ ? $2CF = CJ$ $2 \cdot 30 = CJ$ $60 = CJ$ 2 Concurrency of Medians Theorem Fill in known information. Multiply each side by Solve for CJ . $45 = CJ$ Exercises In $\triangle VYX$, the centroid is Z. Use the diagram to solve the problems. 7. If $XZ = 24$, find YZ and ZR . 8. If $XZ = 44$, find XR and ZR . 9. If $VZ = 14$, find VP and ZP . 10. If $VP = 51$, find VZ and ZP . 11. If $ZO = 10$, find YZ and YO . 12. If $YO = 18$, find YZ and ZO . In Exercises 13-16, name each segment. 13. a median in $\triangle DEF$ 14. an altitude in $\triangle DEF$ 15. a median in $\triangle EHF$ 16. an altitude in $\triangle HEK$ Prentice Hall Geometry • Teaching Resources Copyright © by Pearson Education, Inc., or its affiliates. All Rights Reserved. 40 3 2

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