Name		Date	Class
LESSON	Reteach		
5-2 Bisectors of Triangles			
	Perpendicular bisectors $\overline{MR}, \overline{MS}, \text{ and } \overline{MT}$ are <b>concurrent</b> because they intersect at one point.		The point of intersection of $\overline{MR}$ , $\overline{MS}$ , and $\overline{MT}$ is called the <b>circumcenter</b> of $\triangle NPQ$ .
Theorem		Example	
<b>Circumcenter Theorem</b> The circumcenter of a triangle is equidistant from the vertices of the triangle.		<b>Given:</b> $\overline{MR}$ , $\overline{MS}$ , and $\overline{MT}$ are the perpendicular bisectors of $\triangle NPQ$ . <b>Conclusion:</b> $MN = MP = MQ$	
If a triangle on a coordinate plane has two sides that lie along the axes, you can easily find the circumcenter. Find the equations for the perpendicular bisectors of those two sides. The			

intersection of their graphs is the circumcenter.



## Find the circumcenter of each triangle.



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## Medians and Altitudes of Triangles



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