Name	Da	ate	_ Class
ELOGON	nd Angle Bisecto	rs	
Diana is in an archery compet the target is at <i>D</i> . Her competi	ition. She stands at <i>A</i> , a		
 The distance from each of h equal. Explain whether the f must be a perpendicular bis 	light path of Diana's arrov		
		c	
Use the figure for Exercises 2-	-5.		×N
2. Given that line <i>p</i> is the perpe	endicular bisector of		
\overline{XZ} and $XY = 15.5$, find ZY.		_	
3. Given that $XZ = 38$, $YX = 2$	27, and <i>YZ</i> = 27,	p	
find <i>ZW</i>			
4. Given that line p is the perpe	endicular bisector of \overline{XZ} ;	XY = 4 <i>n</i> ,	7
and $YZ = 14$, find <i>n</i> .			2
5. Given that $XY = ZY$, $WX =$	6x - 1, and $XZ = 10x +$	16, find <i>ZW</i>	
Use the figure for Exercises 6-	-9.	•	A
6. Given that $FG = HG$ and m. m $\angle GEH$.		F	G
7. Given that \overrightarrow{EG} bisects $\angle FEI$	H and $GF = \sqrt{2}$, find GH .	\backslash	\bigvee
8. Given that $\angle FEG \cong \angle GEH$,	FG = 10z - 30, and		Ē
<i>HG</i> = 7 <i>z</i> + 6, find <i>FG</i>			
9. Given that $GF = GH$, m $\angle GI$	$EF = \frac{8}{3} a^\circ$, and m $\angle GEH =$	= 24°, find <i>a</i>	
Write an equation in point-slop of the segment with the given		icular bisector	
10. <i>L</i> (4, 0), <i>M</i> (–2, 3)	11. <i>T</i> (0, –3), <i>U</i> (0, 1)	12. A(–	1, 6), <i>B</i> (–3, –4)