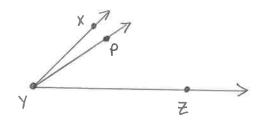
FM Geometry		Name:	Key	
Chapter 1 Review Sheet		Date:	Pd:	
Complete the following sentences.				
1. $\overline{XY}$ consists of the endpoints $X$ and $Y$ and all the points on $\overline{XY}$ that lie between $X$ and $Y$				
2.	$\overline{MN}$ consists of the initial point $\underline{\mathcal{M}}$ and all points on $\overline{MN}$ that lie			
	on the same side of	M as N		
3.	$\overrightarrow{CA}$ and $\overrightarrow{CB}$ are opposite rays if $C$ is between $A$ and $B$			
4.	The distance between points $A$ and $B$ is denoted by	otedA	B	
Draw a diagram and complete the following postulates.				
5.	Segment Addition Postulate			
	If B is $between$ A and C, then	4B+BC =	AC.	

6. Angle Addition Postulate

If P is in the <u>interior</u> of  $\angle XYZ$ , then  $\underline{m \angle XYP + m \angle PYZ = m \angle XYZ$ .



7. Prove the Midpoint Theorem on the back of this paper!

## The Midpoint Theorem

If m is the midpoint of AB, then Am=mB, Am= & AB, and mB= & AB.

Griven: M is the midpoint of AB

A M B

Prove AM = MB, AM = JAB, MB = JAB

Statements		Reasons	
	Mis the midpoint of AB	3 Given	
2	Am = mB	Def. of Midpoint	
3	Am = mB	Def. of = segments	
4	Am + mB = AB	Seg. Add. Post.	
<u>(5)</u>	Am + Am = AB	Subst. Prop. of = (3>9)	
6	2AM = AB	Distributive Property	
<b>(7)</b>	$Am = \frac{1}{a}AB$	Division Prop. of =	
8	MB = JAB	Subst. Prop. of = (3 → 7)	