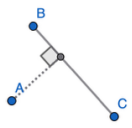
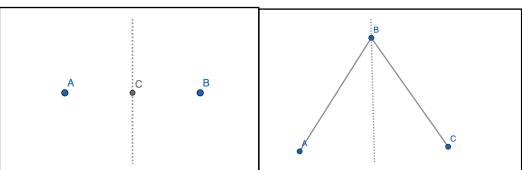
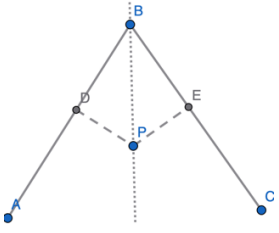


The Bisector Theorems

KEY DEFINITIONS

Perpendicular Distance	Equidistant
	

THE ANGLE BISECTOR THEOREM

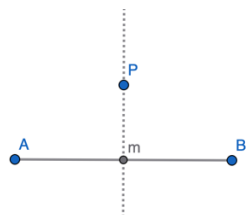
Angle Bisector Theorem
Theorem (conditional form): _____ _____ Converse: _____ _____

Biconditional: <i>A point lies on the bisector of an angle if and only if it is equidistant from the two sides.</i>

THE PERPENDICULAR BISECTOR THEOREM

Perpendicular Bisector Theorem

Theorem (conditional form):

Converse:



Biconditional: *A point lies on the perpendicular bisector of a segment if and only if it is equidistant from the endpoints.*