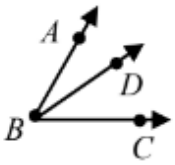
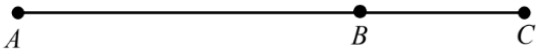
Proofs Reference

Properties of Equality		Properties of Congruence
Addition Property Subtraction Property Division Property" Multiplication Property Distributive Property	Substitution Property Refelxive Property Symmetric Property Transitive Property	Refelxive Property Symmetric Property Transitive Property

Definitions	
Definition of Congruence	$AB = BC \Leftrightarrow \overline{AB} \cong \overline{BC}$
Definition of Bisects	Divides a **segment** or **angle** into two **congruent** parts.
Defintion of Midpoint	Divides a **segment** into two **congruent segments**
Definition of Complementary Angles	Completementary ⇔ Sum 90˚
Definition fo Supplementary Angles	Supplementary ⇔ Sum 180˚
Definition fo Perpendicular	Perpendicular lines intersect at right angles.
Definition of a Right Angle	A right angle = 90˚
Postulates	
Angle Addition Postulate	 m∠ABD + m∠DBC = ∠ABC
Segment Addition Postulate	 AB + BC = AC
Linear Pair Postulate	If two angles form a linear pair, then they are supplementary.
Theorems	
Vertical Angle Theorem	If two angles are vertical, then they are congruent.
All Right Angles Theorem	All right angles are congruent.