**6.6 Triangle Proportionality**

**ADEABC by AApost so the corresponding sides are proportional.**

= =

**\*\*NEW\*\* Triangle Proportionality Theorem**

**If a line is parallel to one side of a triangle and intersects the other two sides then it divides those two sides proportionally.**

**So,**  = or =

**Proof in HW #22**

**Hints: Prove triangles similar by using the idea that corresponding sides are proportional, the segment addition postulate, and proportion properties from 6.2.**

**Ex.**

**Extension of the Triangle Proportionality Theorem**

**Theorem: If a ray bisects on angle of a triangle then it divides the opposite side into 2 segments that are proportional to the other 2 sides of the triangle.**

**Practice Problems: Solve for the missing variables.**

**1)**

**2)**

**3)**