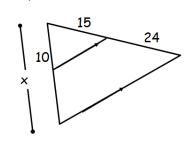
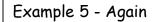
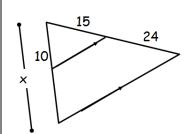
Geometry/Trig 2	Name:
Section 7.6: Proportional Lengths Notes	Date:
If two segments are divided proportionally, what do you think is true about each segment's component pieces?	
They are in	<u>-</u> ·
If AC and JL are	, then=
Example 1: Segments AC and GH are divided proportionally. Find AB.	Example 2: Are segments DF and MN divided proportionally?
Triangle Proportionality Theorem: If a lineto one side of a triangle intersects the other two sides, then it	
divides those sides If GB DF, then =	
Example 3	Example 4
1 12 1 3	14 6 14 10

Example 5

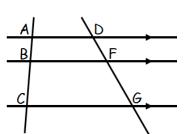






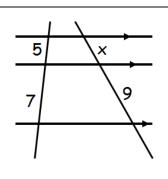
Corollary:

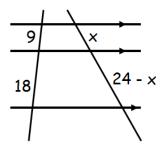
If three _____lines intersect two transversals, then they divide the transversals _____.



If AD || BF || CG, then ____=

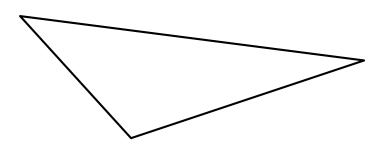
Example 6





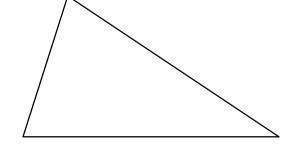
Triangle Angle Bisector Theorem:

If a ray _____an angle of a triangle, then it divides the opposite _____to the other two sides.



If DG bisects \angle FDE, then ___=_

Example 8



Example 9

