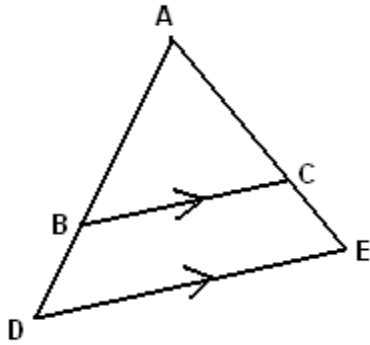


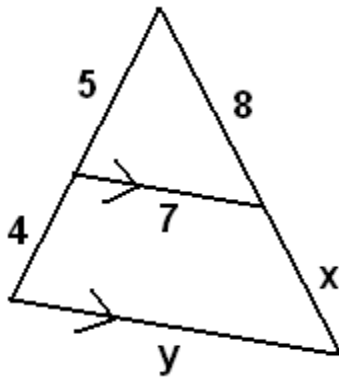
Advanced Geometry
Side-Splitting Theorem

Name: _____

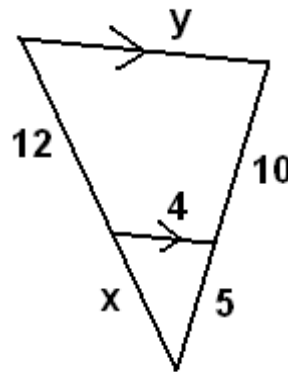
"A line parallel to one side of the triangle splits the other two sides proportionally."



[EX 1]

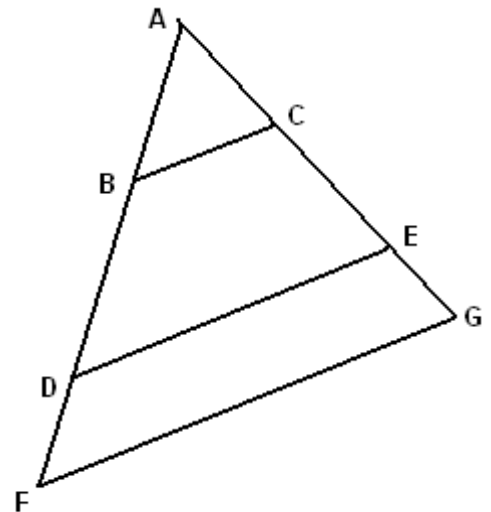


[EX 2]

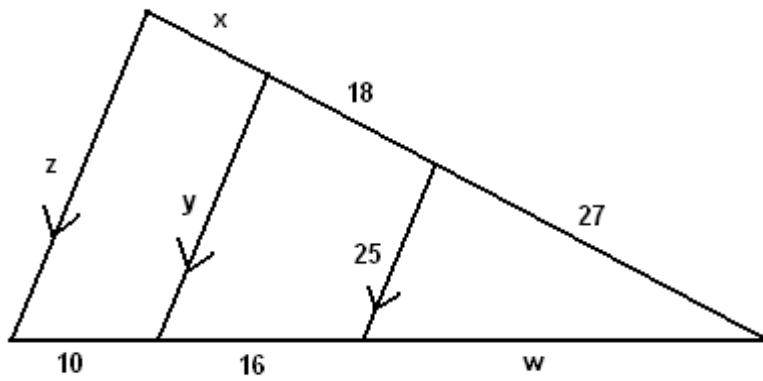


Other Results (Corollaries):

- (A) Three or more parallel lines split two intersecting transversals proportionally.
- (B) Two lines are parallel if and only if they split transversals proportionally.



[EX 3]



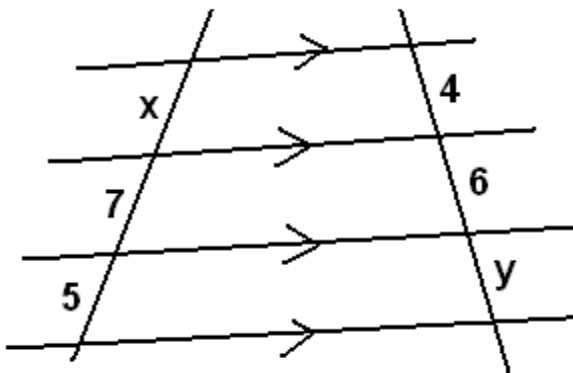
$w =$ _____

$x =$ _____

$y =$ _____

$z =$ _____

[EX 4]



$x =$ _____

$y =$ _____

[EX 5] Which lines are parallel in the given figure?

