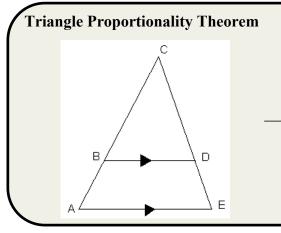
Geometry

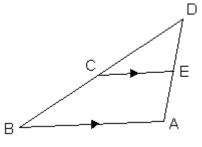
7.4 Parallel Lines and Proportional Parts

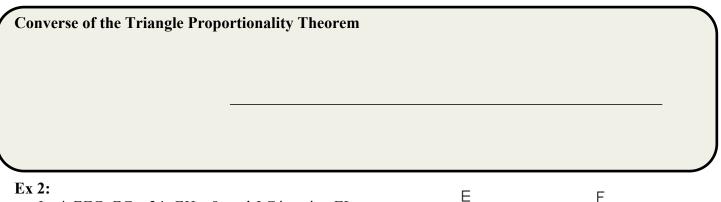
G.T.1 Prove and apply theorems about triangles. G.T.5 Use properties of congruent and similar triangles to solve real-world and mathematical problems involving sides, perimeters and areas of triangles.



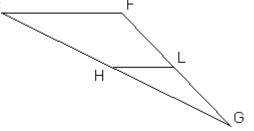
Ex 1:

In $\triangle ABD$, $\overline{AB} \parallel \overline{EC}$, CB = 18, DC = 6, and EA = 27. Find DE.



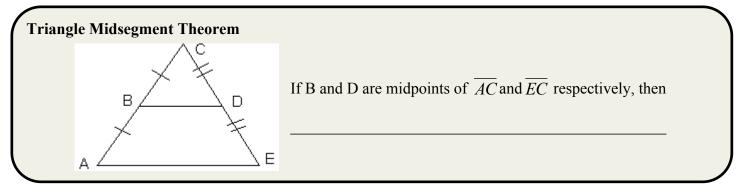


In $\triangle EFG$, EG = 24, EH = 8, and LG is twice FL. Determine whether \overline{HL} ll \overline{EF} . Justify your answer.



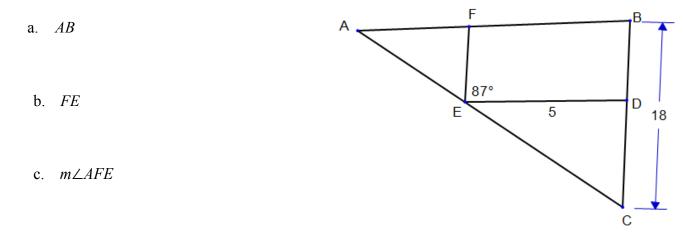
⇒ a segment with endpoints that are midpoints of two sides of the triangle

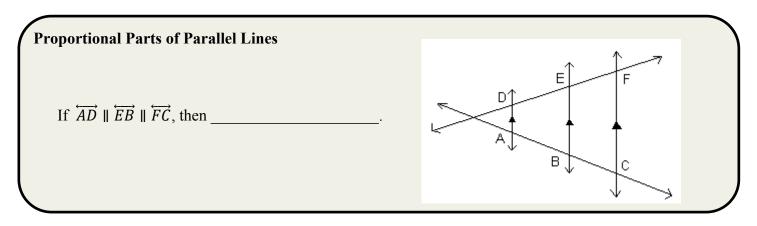
Date ____



Ex 3:

In the figure, \overline{DE} and \overline{EF} are midsegments of ΔABC . Find each measure.





Ex 4:

In Lake Creek, the lots on which houses are to be built are laid out as shown. Using the distances shown, find *w*.

