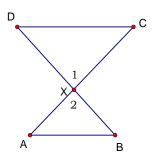
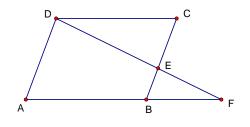
Geometry R – Mr. Bo Unit 8 – Day 3 HW Name_____ Date_____

1. Given: (AX)(DX) = (BX)(CX)Prove: $\triangle ABX \sim \triangle CDX$



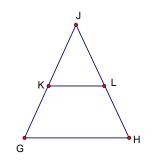
2. Given: Parallelogram ABCD \overline{ABF}

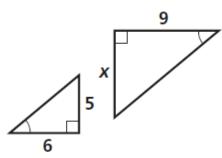
Prove: $\frac{BE}{CE} = \frac{BF}{CD}$



3. Given: $\frac{GJ}{KJ} = \frac{HJ}{LJ}$

Prove: (GH)(JK) = (KL)(GJ)

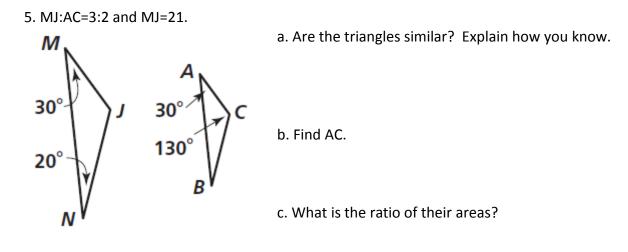




a. Explain why the triangles are similar and find the similarity ratio.

b. Find the value of x.

c. What is the ratio of their perimeters? How do you know?



d. If the area of ΔMJN is 540 sq. units, what is the area of ΔACB ?

6. The ratio of the areas of two similar pentagons is 32:18. If the perimeter of the larger pentagon is 48 units, what is the perimeter of the smaller pentagon? Show how you arrived at your answer.