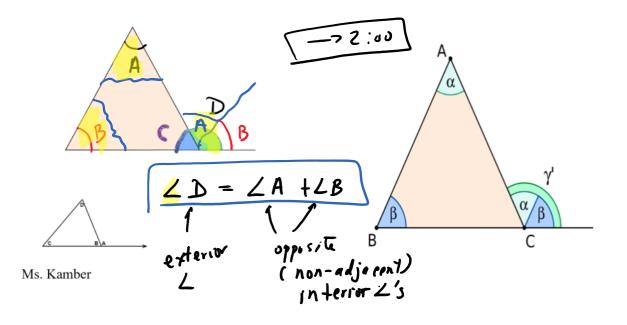
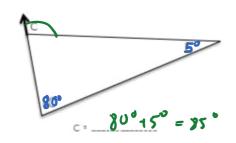


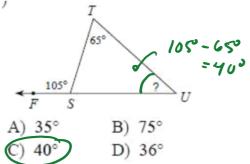
**Investigation:** Take a triangle, mark the a, b, and c angles. Tear off opposite interior angles, a and b. How can you use a and b to determine the measure of exterior angle d? of c?



**Example 1:** Find the measure of indicated angle.

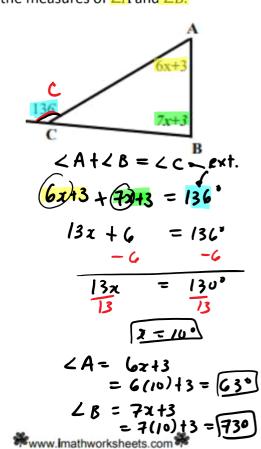


**Example 2:** Find the measure of indicated angle.

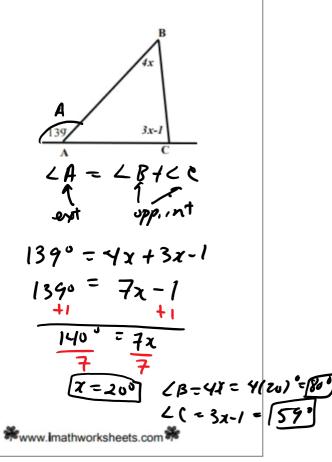


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**Example 3:** Find x and the use it to find the measures of  $\angle A$  and  $\angle B$ .



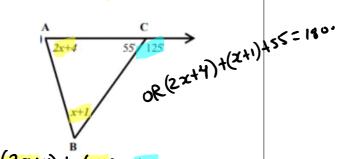
**Example 4:** Find x and the use it to find the measures of  $\angle B$  and  $\angle C$ .



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**Example 5:** Find x and the use it to find the measures of  $\angle A$  and  $\angle B$ .

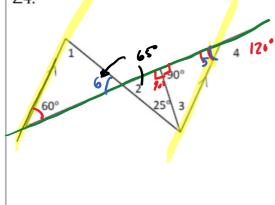
Example 6: Make up your own question involving an exterior angle!



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**Example 7:** Determine  $\angle 1$ ,  $\angle 2$ ,  $\angle 3$ , and ∠4.



## **Assignment:**

- "What do you call a cook that leaves Arby's to work at McDonalds?"
- Triangles Sheet: #1-3, 4 or 10, 5-8, 11.

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