 **Unit 2 Lesson 5 Notes**

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| Learning Outcomes | How can I prove the sum of the angles of any triangle?  How can I determine if a triangle is an isosceles triangle? |
| Do Now | Find mL. |

**NOTES:** POSTULATES AND THEOREMS ON TRIANGLES

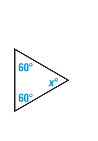
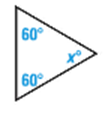
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| **TRIANGLE SUM THEOREM:** |

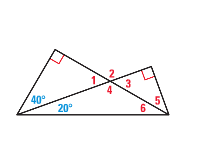
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| **LINEAR PAIR POSTULATE:** |

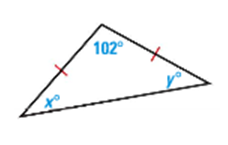
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| **TRIANGLE EXTERIOR ANGLE THEOREM:** |

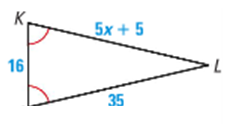
 Examples:

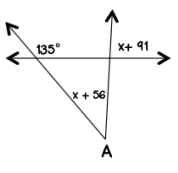
 Find the value of x.

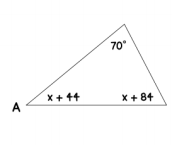
 1.  2. 3.

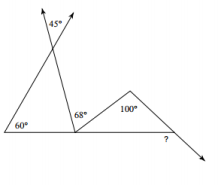
4. Find the measure of the numbered angles.

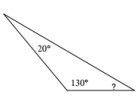
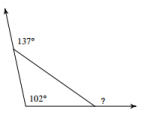
5. Find the value of *x* and *y*.

a. b. c.

d. e.



6. Find the missing angle measures in the triangle.

a. b. c.

d.