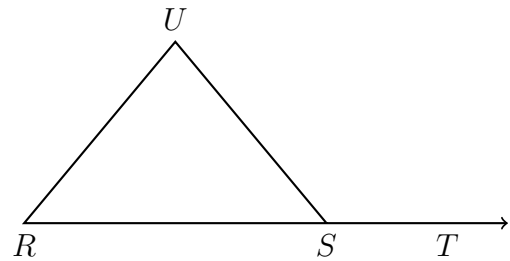


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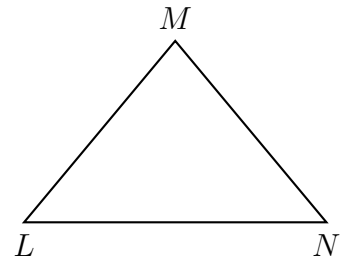
### 3.6 External angles of triangles

1. The measures in degrees of the three angles of a triangle are  $x$ ,  $\frac{1}{2}x$ , and  $\frac{3}{2}x$ . Find the measures of the triangle's angles.

2. Given  $\triangle RSU$ . If  $m\angle UST = x$  and  $m\angle R = x - 80$ , and  $m\angle U = x - 50$ .



3. Given isosceles  $\triangle LMN$  with  $\overline{LM} \cong \overline{NM}$ . If  $m\angle L = 2x + 20$  and  $m\angle N = 3x + 5$ , find  $m\angle M$ .



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4. Given  $\triangle RSU$ . If  $m\angle UST = x + 50$ ,  $m\angle R = x - 20$ , and  $m\angle U = x + 10$ , find  $m\angle R$ .

