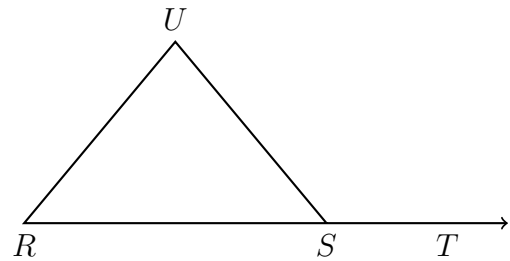


Name:

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 $m\angle M$.

