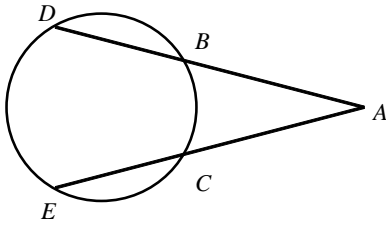
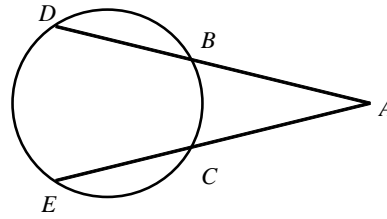


NAME: _____

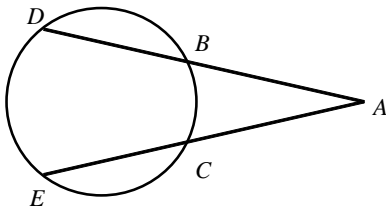
1. If $m\widehat{DE} = 121$ and $m\widehat{BC} = 83$, find $m\angle A$.



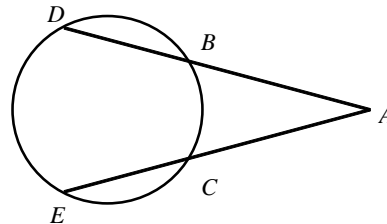
4. If $m\widehat{DE} = 113$ and $m\widehat{BC} = 67$, find $m\angle A$.



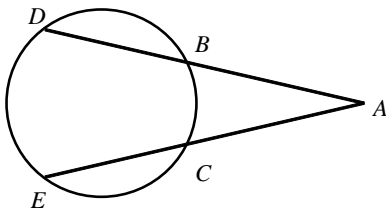
2. If $m\widehat{DE} = 104$ and $m\widehat{BC} = 60$, find $m\angle A$.



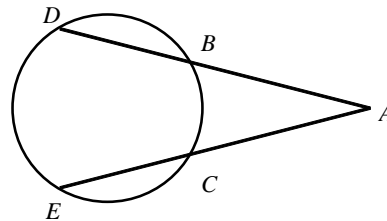
5. If $m\widehat{DE} = 125$ and $m\widehat{BC} = 85$, find $m\angle A$.



3. If $m\widehat{DE} = 106$ and $m\widehat{BC} = 64$, find $m\angle A$.



6. If $m\widehat{DE} = 119$ and $m\widehat{BC} = 71$, find $m\angle A$.



7. Two secants from a point V outside a sphere intersect a great circle of a sphere, cutting off arcs of 30° and 90° . What angle do the secants make with each other at V ?

[1] 19

[2] 22

[3] 21

[4] 23

[5] 20

[6] 24

[7] 30°