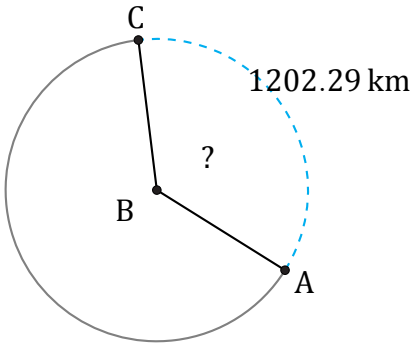
Amplitud y Longitud de Arcos (I)

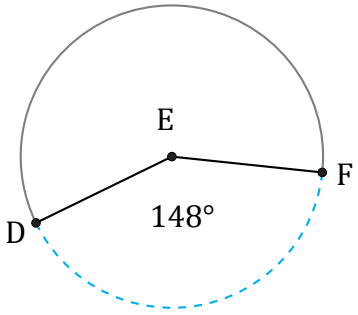
Nombre: _____ Fecha: _____

Calcule la amplitud angular o la longitud de cada arco.



Radio = 534 km

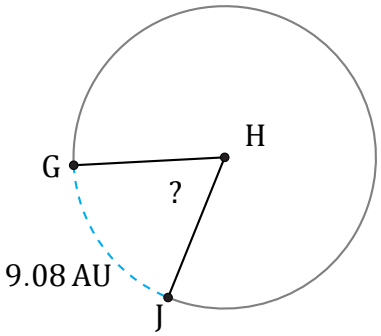
∠ABC =



?

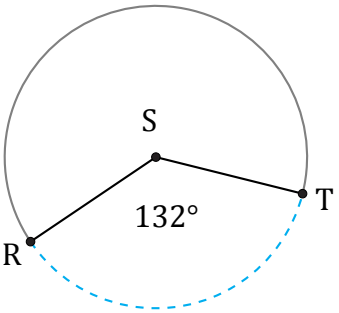
Radio = 748 mi

$\overset{\frown}{DF}$ =



Radio = 8 AU

∠GHJ =



?

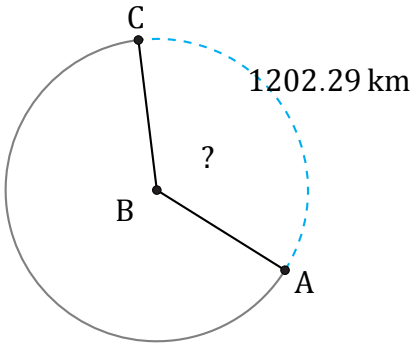
Radio = 6 in

$\overset{\frown}{RT}$ =

Amplitud y Longitud de Arcos (I) Respuestas

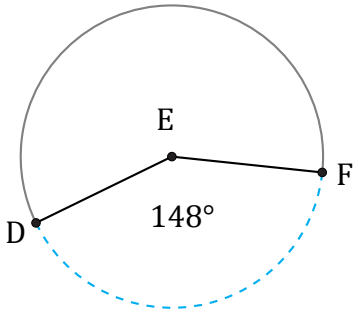
Nombre: _____ Fecha: _____

Calcule la amplitud angular o la longitud de cada arco.



Radio = 534 km

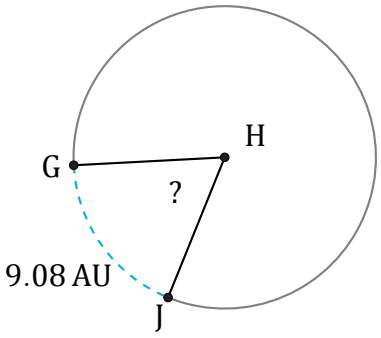
$\angle ABC = \frac{1202.29}{534 \times \pi \times 2} \times 360 = 129°$



?

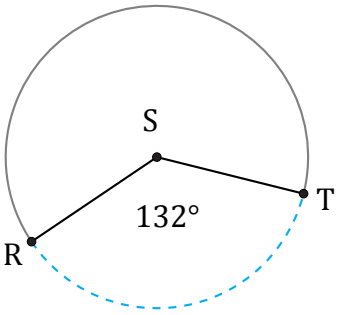
Radio = 748 mi

$\overset{\frown}{DF} = \frac{148}{360} \times \pi \times 748 \times 2 = 1932.15 \text{ mi}$



Radio = 8 AU

$\angle GHJ = \frac{9.08}{8 \times \pi \times 2} \times 360 = 65°$



?

Radio = 6 in

$\overset{\frown}{RT} = \frac{132}{360} \times \pi \times 6 \times 2 = 13.82 \text{ in}$