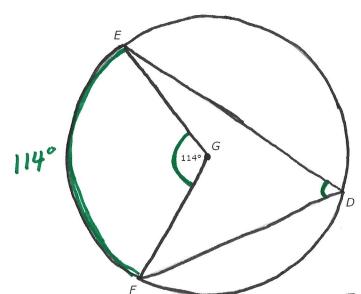
Worked Examples - Inscribed Angles (IXL Geometry W.12)

1.

What is $m\angle EDF$?



Inscribed Angle-Angle whose vertex is on a circle, whose sides are chords.

Intercepted Arc-An arc that lies between 2 sides of an angle.

Inscribed Angle Theorem Measure of an inscribed
angle is half the measure
of the central that intercepts
the same arc.

Given Central L

Central L = Inscribed L

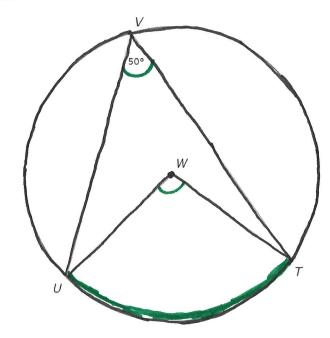
Given Inscribed L

2(Inscribed L) = central L

114 = MLEDF

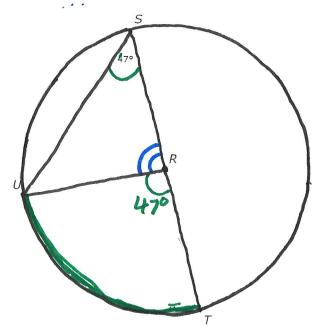
S7° = mLEDF

What is $m \angle W$?



Given Inscribed 2(mLV) = mLW $2(S0^{\circ}) = mLW$ $100^{\circ} = mLW$

What is *m\(\mathcal{L}\text{SRU}\)*?

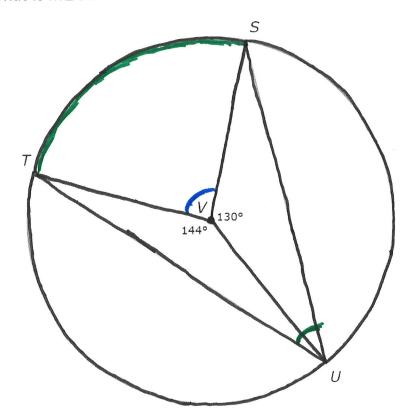


Given Inscribed

ST is a diameter Arc of diameter is 180°.

mLSRU = 86°)

What is m \(\int SUT ?



Write your answer as an integer or decimal.

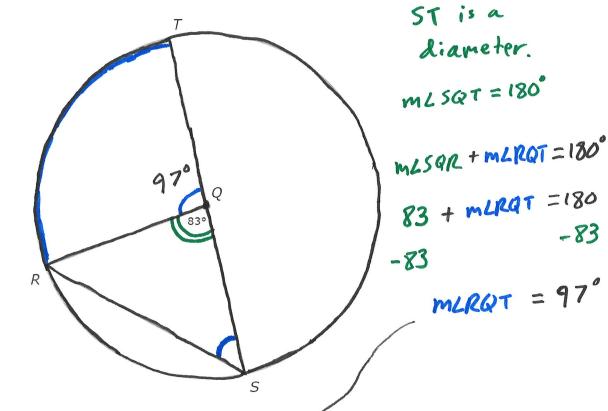
The Central Ls of a Civde add to 360°

$$144 + 130 + m \angle SVT = 360$$

 $274 + m \angle SVT = 360$
 -274
 -274
 $m \angle SVT = 86^{\circ}$

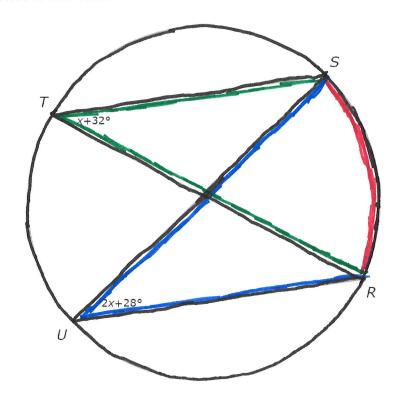
Have a Central L MLSVT = MLSUT

What is $m \angle RST$?



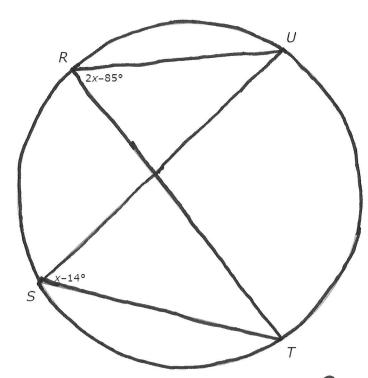
Write your answer as an integer or decimal

What is the value of x?



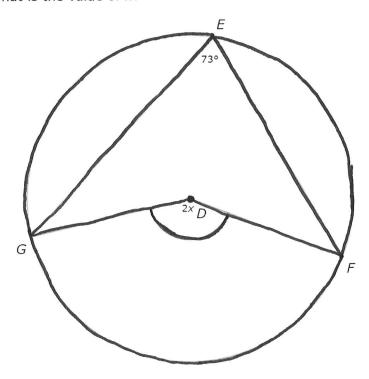
2 Inscribed Ls intercept the same arc are =

What is $m \angle S$?



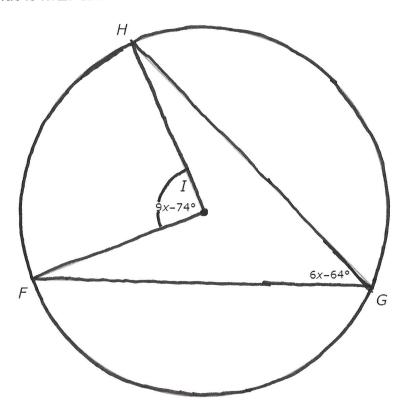
LS and LR both intercept Fu, and are inscribed.

What is the value of x?



$$2(73) = 2 \times$$

What is $m \angle FGH$?



MLG and MLI

26 is inscribed & LI:s central.

FH is interrepted arc.

2 (mL6) = mLI

2(6x-64) = 9x-74

12x - 128 = 9x - 74+128 +128

> 12x = 9x + 54-9x - 9x

3x=54 x=18