

Geometry - 10.2 - Angles and Arcs

• A <u>Central</u> angle has the <u>Central</u> of a circle as its vertex and its sides are two <u>radic</u> of the circle. The sum of the <u>Central</u> angles with no interior points in common is 360°

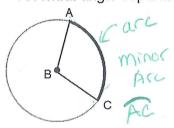
Ex 1 - Find m RTS and m QTR. (13x - 3)°

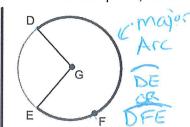
LOTE 400

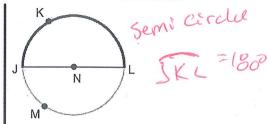
m LRTS + m LSTU + m LUTV = 180° & half the eircle

2/ex = 182°

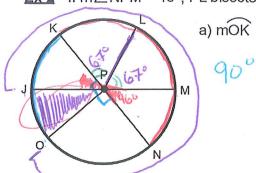
• A central angle separates a circle into two parts, each of which is called an OCC

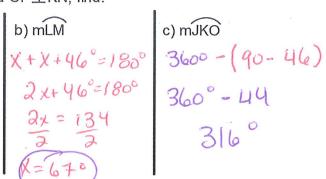






Ex 2 - If m \angle NPM = 46°, \overline{PL} bisects \angle KPM, and $\overline{OP} \bot \overline{KN}$, find:





ARC LENGTH

Measure of Are -> A = l & arc legen Measure of circle > 360° 2.71.5 - Circumference Equivalently:

Ex 2 - If PR = 15 and m
$$\angle$$
 QPR = 120°, find mQR
 360° 2π 0
 120° = 0

