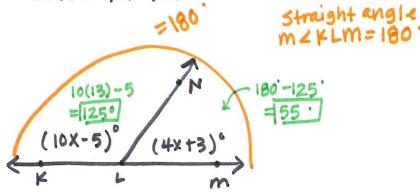
MEASURE and CLASSIFY ANGLES

Vocabulary	Definition	Example		
ANGLE	An angle consists of two different rays with the same endpoint angle = <	Name an angle with 3 points that are on the angle but the middle letter must be the common endpoint B Common endpoint Common endpoint (vertex).		
SIDES of ar ANGLE	The rays are called the sides of an angle.	Sides: ED and EF BA and BC Sides: ED and EF		
VERTEX of an ANGLE	The endpoint is the vertex of an angle.	you may name an angle by Point B Its vertex (example: <b) and="" angle="" angle.="" for="" is="" it="" one="" only="" td="" that="" the="" vertex="" when="" z="" zdef,="" zdeg,="" zfe="" zgef="" zgef<="" znml=""></b)>		
MEASURE of an ANGLE	In <abc, 0="" 180.="" <abc="" absolute="" and="" ba="" bc="" bc.<="" be="" between="" can="" difference="" equal="" for="" from="" is="" matched="" measure="" numbers="" of="" one="" real="" td="" the="" to="" value="" with=""><td>mzABC=80° m=measure of angle ABC is" m=measure (degrees)</td></abc,>	mzABC=80° m=measure of angle ABC is" m=measure (degrees)		

ACUT ANGL	-	An angle whose measure is between 0° and 90°	0° 2 x° 2 90° 8 47° 8 47°	m ZABC = 47° ZABC is an acude Z.
RIGH ANGL		An angle that measures 90°.	x° = 90°	LABC = 90° LABC is a right L right angle: L LABC is L.
OBTUS ANGL		An angle whose measure is between 90° and 180°.	90° Z X° Z 180°	mzabc=147° ZABC is an obtube 2.
STRAIG ANGL		An angle that measures 180°.	X°=180.	m & ABC=180° & ABC is a straight &. * opposite rays form Straight & BA and BC

CONGRUE ANGLES		Angles with the same measure.	ZABC W ZDEF AT C E F B C E F B C E F C
ANGLE BISECTO		A ray that divides an angle into two congruent angles.	BD bisects ZABC. Omzabc=50 mzabc=25 mzabc=30 mzabc=30 mzabc=30 mzabc=30 mzabc=30
		If P is in the interior of <rst, <pst.<="" <rsp="" <rst="" and="" equal="" is="" measure="" measures="" of="" sum="" td="" the="" then="" to=""><td>$m \angle RST = m \angle RSP + m \angle PST$ $m \angle RST = 20^{\circ} + 38^{\circ}$ $m \angle RST = 58^{\circ}$</td></rst,>	$m \angle RST = m \angle RSP + m \angle PST$ $m \angle RST = 20^{\circ} + 38^{\circ}$ $m \angle RST = 58^{\circ}$
ANGLE ADDITIC POSTULA	ION	If P is in the interior of <rst, +="" m<pst<="" m<rst="m<RSP" td="" then=""><td>38° T</td></rst,>	38° T

Solve for x. Then find the measures of the other angles.



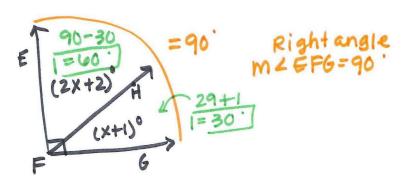
MYKIN + MKNIM = MKKIM

$$10x-5 + 4x+3 = 180$$

$$14x - 2 = 180$$

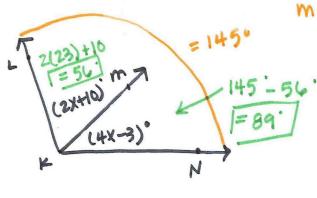
$$14x = 182$$

$$x = 13$$



 $m \angle FFH + m \angle HFG = m \angle HFG$ 2x+2 + x+1 = 90' 3x+3 = 90 -3 3x = 97|x=29|

The m< LKN=145.



MYTKEL + W TWEN = WYTKN

$$2x+10 + 4x-3 = 145$$

$$6x + 7 = 145$$

$$-7 - 7$$

$$6x = 136$$

$$x = 23$$