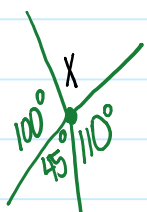


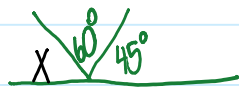
U5L1 Angle Properties (new unit: GEOMETRY)

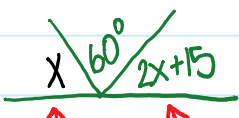
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1) Angles around a point add up to 360°.

eg.  $x = 360 - [100^\circ + 45^\circ + 110^\circ]$
 $x = 360 - [255^\circ]$
 $x = 105^\circ \checkmark$

2) Angles on a straight line add up to 180°.

eg.  $x = 180 - [60^\circ + 45^\circ]$
 $x = 75^\circ$

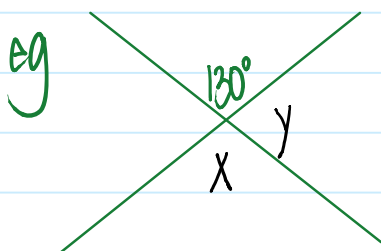
eg.  $x + 60 + 2x + 15 = 180$
 $3x + 75 = 180$

Steps:
a) write an eqⁿ
b) solve for x.

Ans: 35° Ans: 85°
 $2x + 15$
 $= 2(35) + 15$
 $= 70 + 15$
 $= 85^\circ$

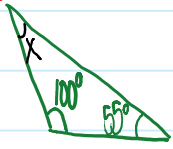
$\frac{3x}{3} = \frac{105}{3}$
 $x = 35^\circ \checkmark$

3) Opposite Angles are Equal



$x = 130^\circ$
 $y = 180^\circ - 130^\circ = 50^\circ$ (b/c of angles on a line = 180°)

4) Angles in a Triangle add up to 180°.



$$x = 180 - [100 + 55]$$

$$x = 180 - 155$$

$$x = 25^\circ \quad \checkmark$$

Assignment: # 1, 2, 3-5 (A-C), 6-8, 9 / 24 mks
U5H
WKST