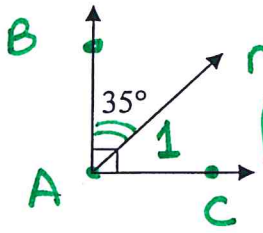
Angle measurements notes Name Notes

I can find the measure of a missing angle using angles relations

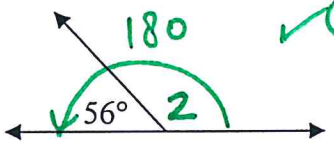


$m\angle 1 = 90° - 35°$

$m\angle 1 = 55°$

C. A

m<BAC= 90°



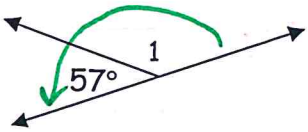
✓ Complementary Add up to 90°

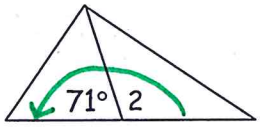
$m\angle 2 = 180° - 56°$

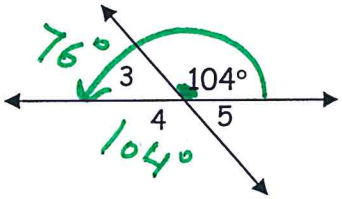
$m\angle 2 = 124°$

✓ Supplementary Add up to 180°

m<EFG=







✓ Vertical opposites are equal

$m\angle 1 = 180° - 57°$

$m\angle 1 = 123°$

m<MLP= 180°

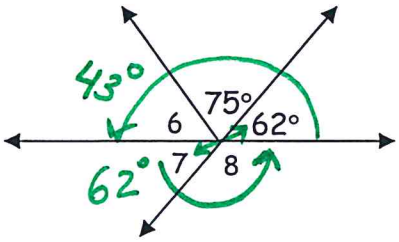
$m\angle 2 = 180° - 71°$

$m\angle 2 = 109°$

m< 3= $180° - 104° = 76°$

m<4= 104°

m<5= 76°



137°

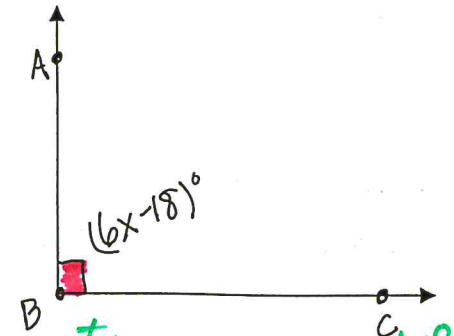
m<6= $180° - (75 + 62) = 43°$

m< 7= 62°

m<8= $180° - 62° = 118°$

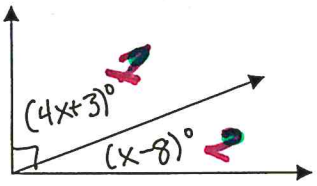
I can Write an equation and then solve the equation to find missing angles. I can write a justification

1.



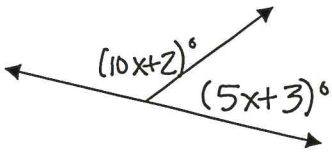
Equation	Justification
$6x - 18 = 90°$	Right angle
$+18 \quad +18$	Add 18
$\frac{6x}{6} = \frac{108°}{6}$	divide by 6
$x = 18$	Answer

2.



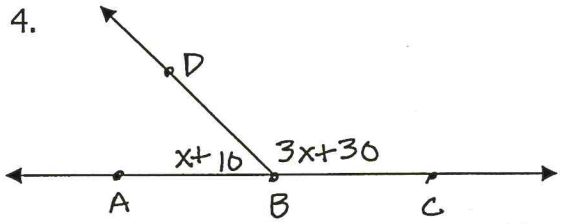
Equation	Justification
$4x + 3 + x - 8 = 90°$	Complementary Angle
$5x - 5 = 90°$	C.L.T
$+5 \quad +5$	Add 5
$\frac{5x}{5} = \frac{95°}{5}$	divide by 5
$x = 19$	Answer

3.



Equation	Justification
$10x+2+5x+3=180°$	Supp Angle
$15x + 5 = 180°$	C.L.T
$-5 \quad -5$	Subtract 5
$\frac{15x}{15} = \frac{175}{15}$	divide 15
$x = 11.6$	Answer

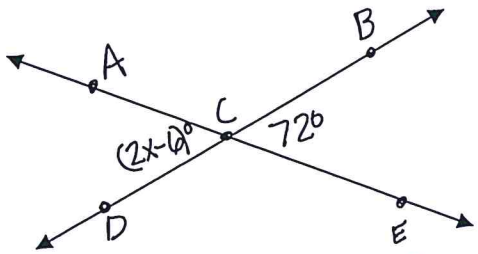
4.



Equation	Justification

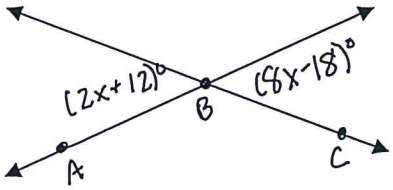
$x =$ _____

5.



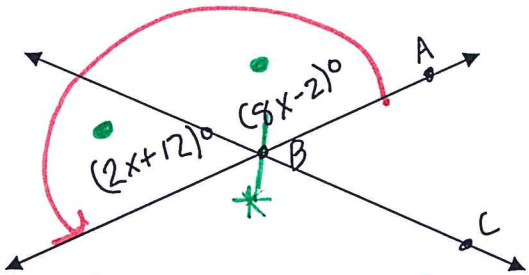
Equation	Justification
$2x-6=72$	Vertical Angles
$+6 \quad +6$	Add 6
$\frac{2x}{2}=\frac{78}{2}$	divide by 2
$x=39$	Answer

6.



Equation	Justification
$2x+12=8x-18$	Vertical Angles
$-2x \quad -2x$	minus 2x
$12=6x-18$	Add 18
$+18 \quad +18$	divide by 6
$\frac{30}{6}=\frac{6x}{6}$	Answer.
$x=5$	

7.



Equation	Justification
$2x+12+8x-2=180°$	Supp. Angle
$10x+10=180°$	C.L.T
$-10 \quad -10$	Minus 10
$\frac{10x}{10}=\frac{170}{10}$	divide by 10
$x=17$	Answer

8. ∠1 and ∠2 are complementary. m∠1 = 2x + 7 and m∠2 =4x – 19. Find the measure of each angle.

Equation	Justification
$2x+7+4x-19=90°$	Complementary Angles.
$6x-12=90°$	C.L.T
$+12 \quad +12$	Add 12
$\frac{6x}{6}=\frac{102°}{6}$	divide by 6
$x=17$	Answer.

9. ∠3 and ∠4 are supplementary. m∠3 = 5x + 22 and m∠4 = 7x + 2. Find the measure of each angle