

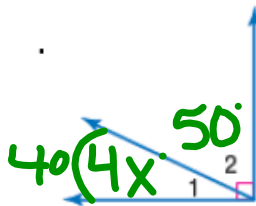
You need out your warm up, agenda, & HW

Homework: Angles. Short Quiz Friday!

Warm Up:

Find the measure of the missing angles:

1)

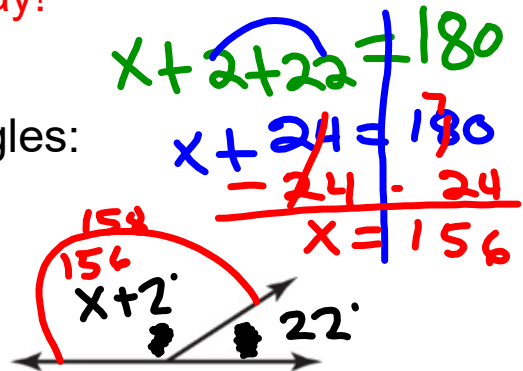


$$4x + 50 + 90 = 180$$

$$\downarrow -50 - 90$$

$$4x = 40$$

2)



3) Solve for x: $5x - 20 + 3x = 4$

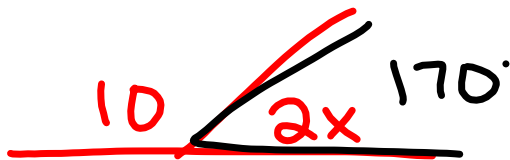
$$8x - 20 = 4$$

$$+20 \quad +20$$

$$\hline 8x = 24$$

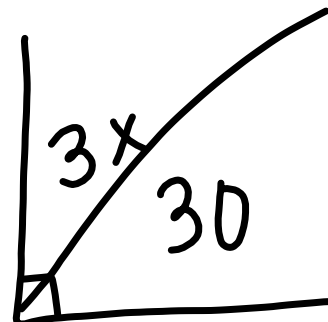
$$\hline 8 \quad 8$$

$$x = 3$$



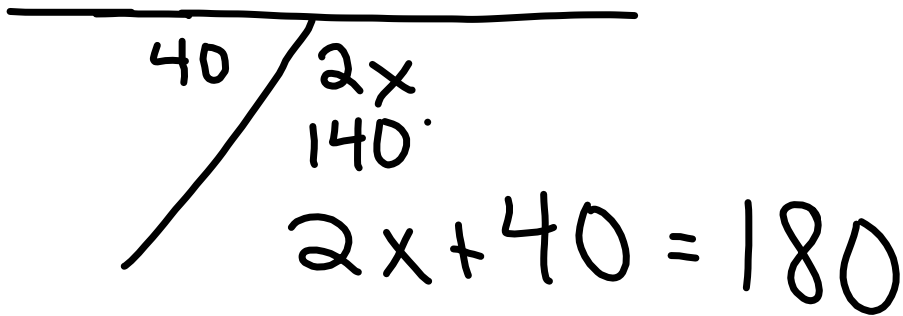
10 $2x$ 170

$$\begin{array}{r} 2x + 10 = 180 \\ -10 \quad | \quad -10 \\ \hline 2x = 170 \end{array}$$

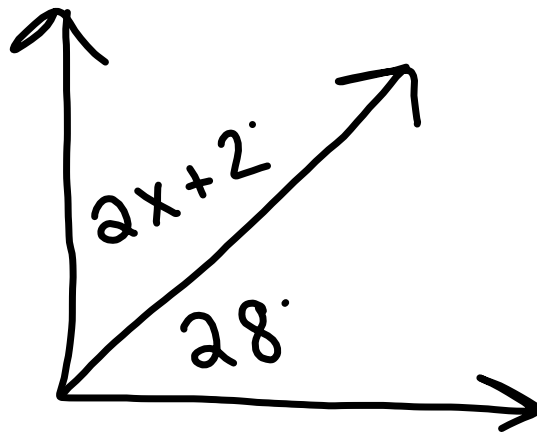


$3x$ 30

$$\begin{array}{r} 3x + 30 = 90 \\ -30 \quad | \quad -30 \\ \hline 3x = 60 \end{array}$$



Solve
for x



$$2x + 2 + 28$$

$$2x + 30$$

$$- 30$$

$$= 90$$

$$= 90$$

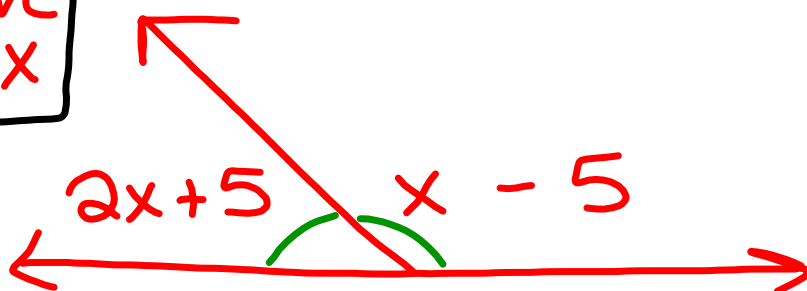
$$- 30$$

$$2x = 60$$

$$\frac{2x}{2} = \frac{60}{2}$$

$$x = 30$$

Solve
for x



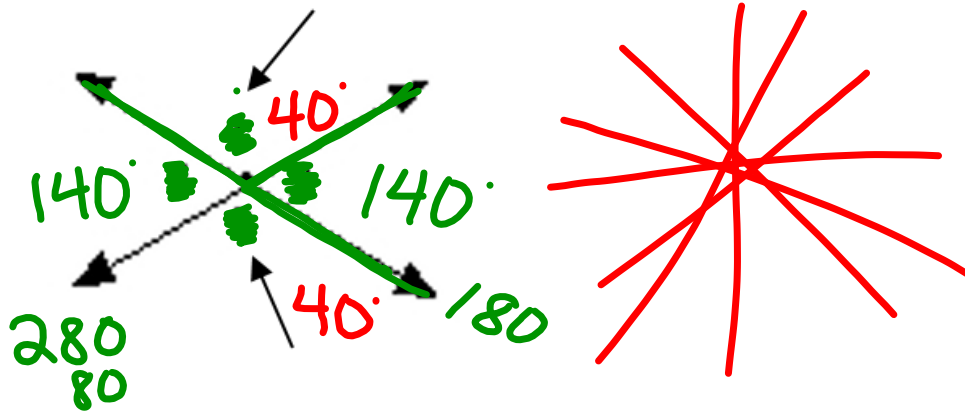
$$\underline{2x + 5} + \underline{x - 5} = 180$$

$\frac{+}{-}$
 $\frac{+}{-}$

$$\frac{3x}{3} = \frac{180}{3}$$

$$x = 60$$

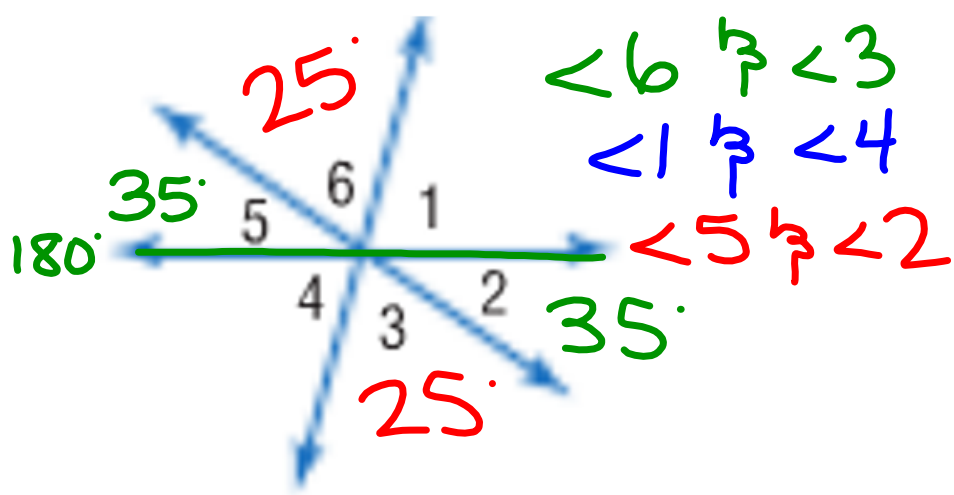
vertical Angles- Notes



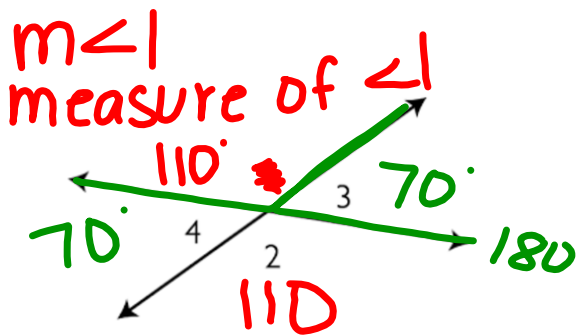
Vertical Angles are opposite angles formed by the intersection of 2 lines.

Vertical Angles have the same measures- they are congruent

=



Name all vertical angle pairs:



-Name a pair of adjacent angles $\angle 1, \angle 3$
 $\angle 3, \angle 2$ $\angle 1, \angle 4$

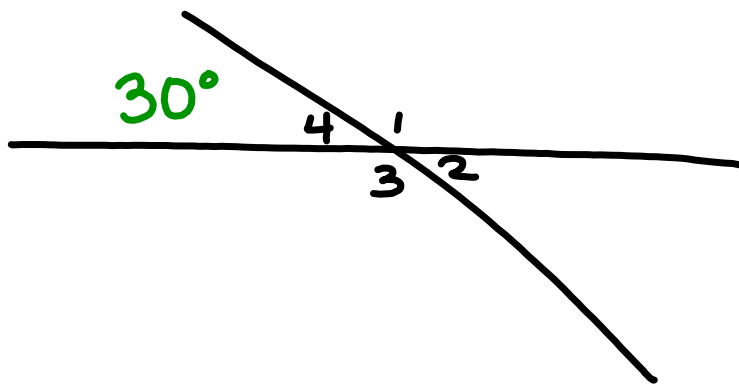
-Name a pair of vertical angles $\angle 1, \angle 2$
 $\angle 4, \angle 3$

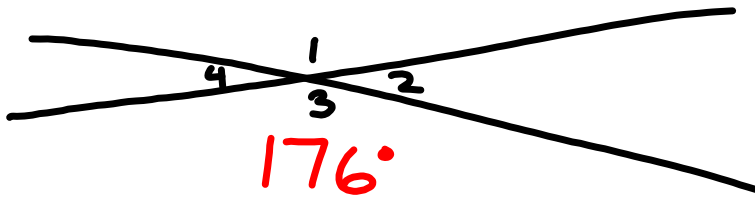
- $m\angle 1$ is 110° , find the $m\angle 2$ 110°

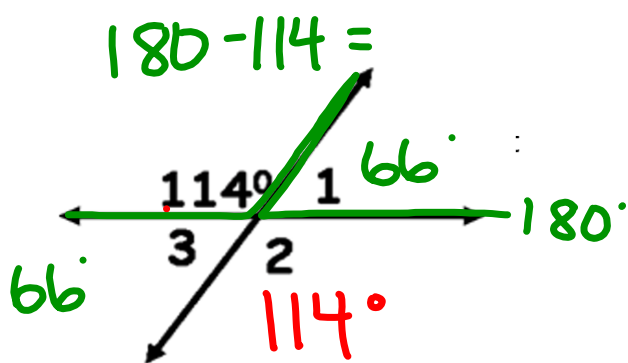
- $m\angle 1$ is 110° , find the $m\angle 3$ 70°

-Name a pair of supplementary angles _____

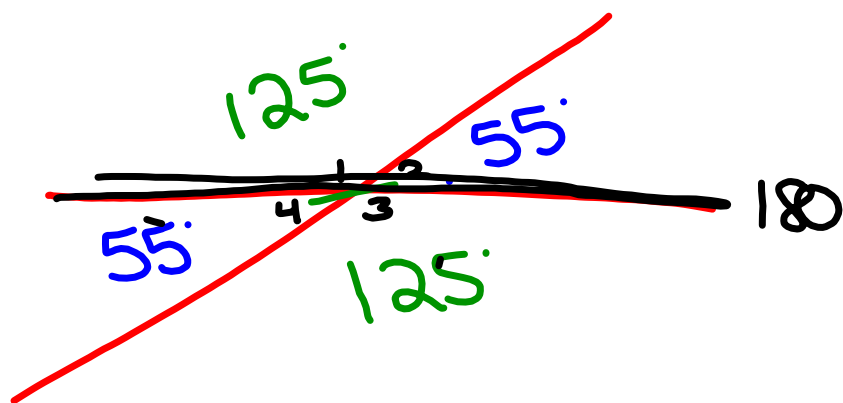
- $\angle 1 \text{ } \hat{=} \text{ } \angle 3$
- $\angle 4 \text{ } \hat{=} \text{ } \angle 2$
- $\angle 3 \text{ } \hat{=} \text{ } \angle 2$
- $\angle 4 \text{ } \hat{=} \text{ } \angle 1$

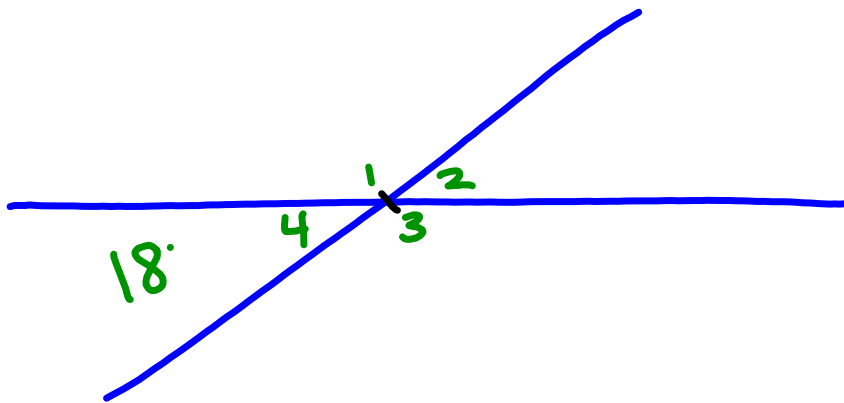


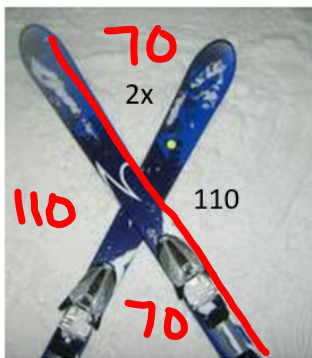




- What angle is supplementary to $\angle 2$ $\angle 3$
- What angle is vertical to $\angle 1$ $\angle 3$ $\angle 1$
- Find the $m\angle 2$ 114°
- Find the $m\angle 1$ 66°







Use angle relationships to find each missing angle.

$$\begin{array}{r}
 2x + 110 = 180 \\
 -110 -110 \\
 \hline
 2x = 70
 \end{array}$$

~~$$\begin{array}{r}
 2x \\
 \\
 30
 \end{array}$$~~

$$\begin{array}{r}
 2x = 30 \\
 \underline{} \\
 2 \\
 x = 15
 \end{array}$$

43° 137°
 137° 43°

50° $2x^\circ$ 130°
 130° 50°

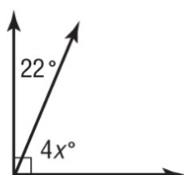
$2x + 130 = 180$
 $-130 \quad -130$

 $2x = 50$

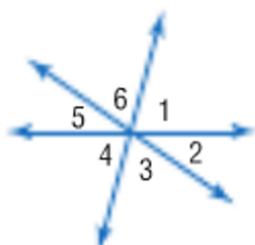
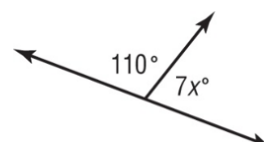
Angles Homework: Complementary, Supplementary, Adjacent, and Vertical

-Use the angles relationships to solve for x:

1.



2.



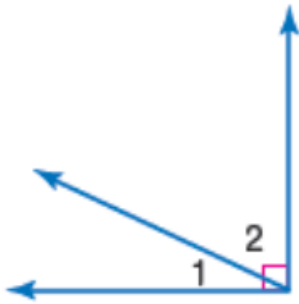
3. $\angle 6$ and $\angle 3$ are _____

4. $\angle 4$ and $\angle 3$ are _____

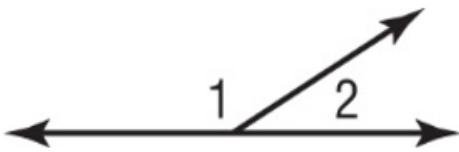
5. $\angle 5$ and $\angle 2$ are _____

vertical adjacent

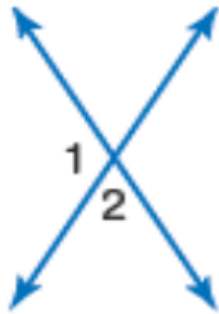
2.



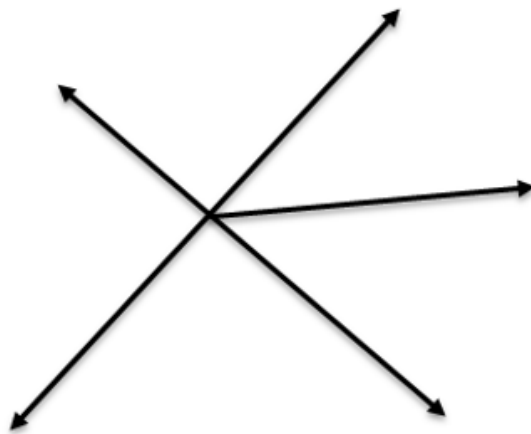
1.



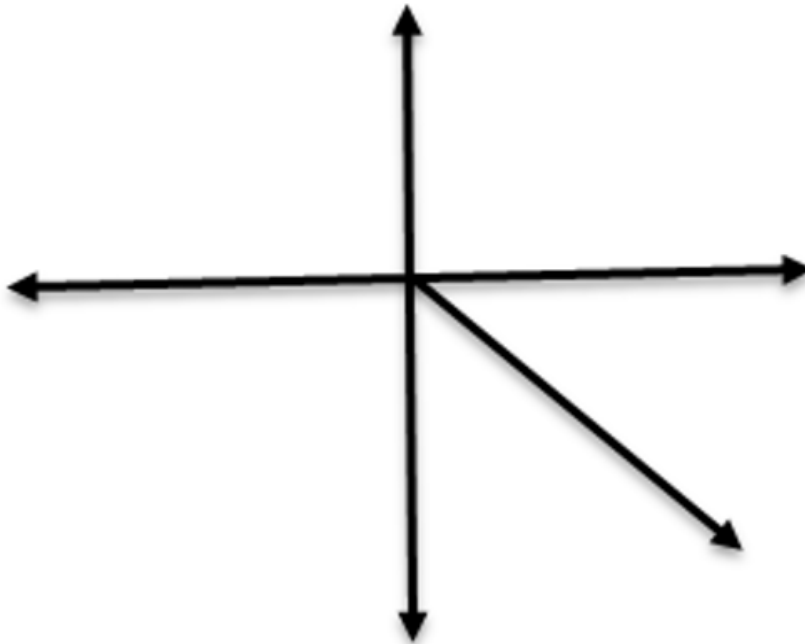
3.



4.



5.



#nonwireless

Sit silently for the news

#foo9