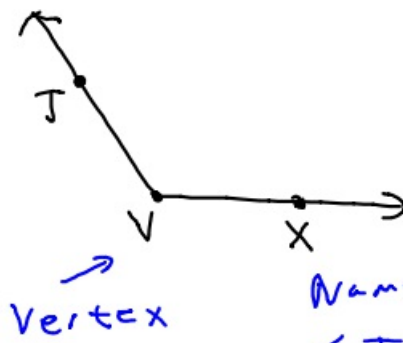
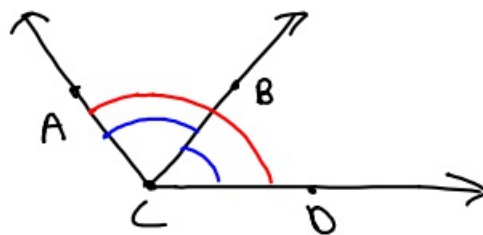


8-24-18 5<sup>th</sup> Geo



Name the angle  
 $\angle TVX$  or  $\angle XV T$   
3 letters



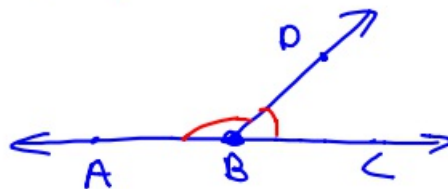
Name all acute angles you see.

$\angle ACB$   $\angle BCD$

$\angle ACD$  is obtuse

Linear pair

pair of angles that create  
a line and are adjacent  
angles.

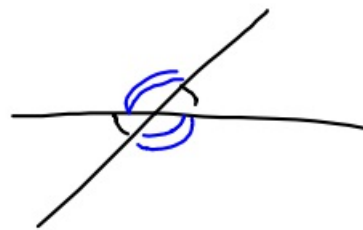


Complementary angles  $\rightarrow 90^\circ$

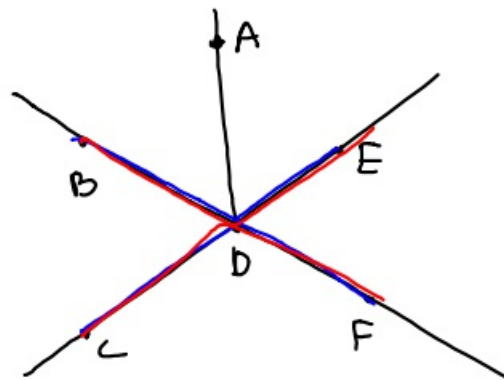
Supplementary angles  $\rightarrow 180^\circ$

C  $90^\circ$   
S  $180^\circ$

Vertical Angles



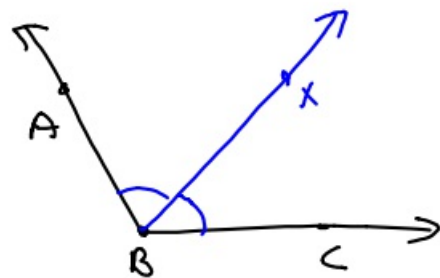
Scissors



Name some  
vertical  
angles.

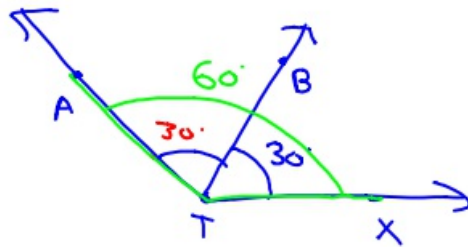
$\angle BDC + \angle EDF$   
 $\angle BDE + \angle CDF$

Bisect angle - cut into  
2 equal  
parts

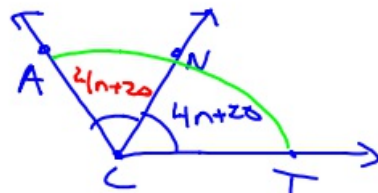


$\therefore \angle ABX = \angle XBC$

- ①  $\vec{TB}$  bisects  $\angle ATX$ . If  $\angle XTB = 30^\circ$ , what is  $\angle ATX$ ?  $60^\circ$



- ②  $\vec{CN}$  bisects  $\angle ACT$ . If  $\angle NCT = 4n + 20$ , what is  $\angle ACT$ ?  $8n + 40$



- ③  $\angle A$  and  $\angle B$  are vertical angles.  $\angle A = 4n + 10$  and  $\angle B = 2n + 40$ . What is the measurement of  $\angle A$ ?

$$\begin{aligned} \angle A &= \angle B \\ \downarrow & \quad \downarrow \\ 4n + 10 &= 2n + 40 \\ -2n & \quad -2n \\ \hline 2n + 10 &= 40 \\ -10 & \quad -10 \\ \hline 2n &= 30 \\ n &= 15 \end{aligned}$$

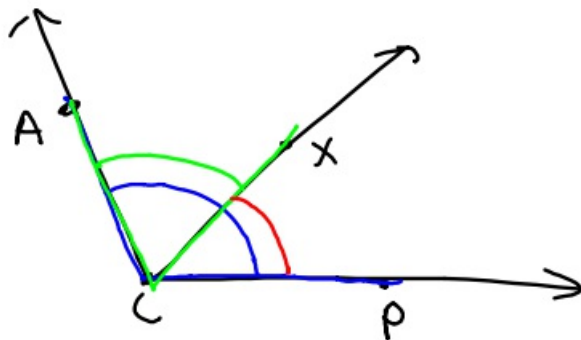
$$\begin{aligned} \angle A &= 4n + 10 \\ \therefore \angle A &= 4 \cdot 15 + 10 \\ \angle A &= 70^\circ \end{aligned}$$

8-24-18 6<sup>th</sup> Geo



Name the angle for me.

$\angle AVT$  or  $\angle TVA$

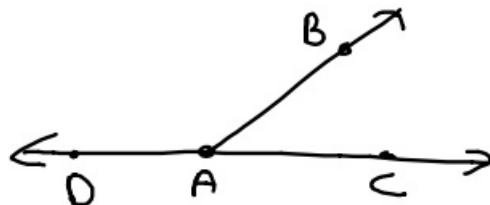


Name all angles in picture.

$\angle ACP$   $\angle ACX$   $\angle PCX$

Can't say  $\angle C$ .

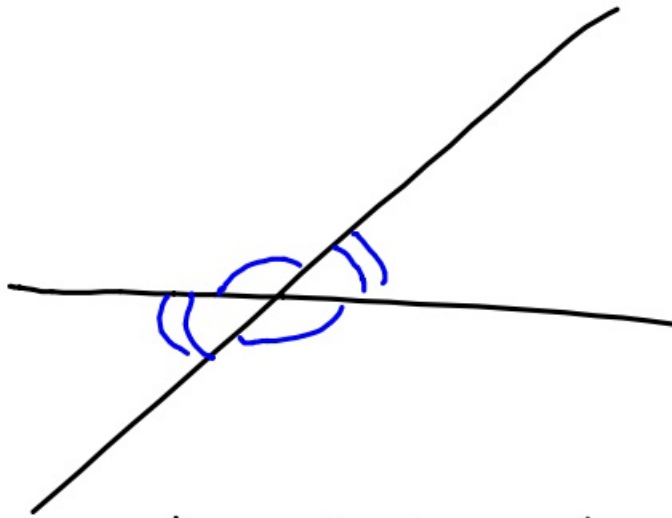
Linear pair - 2 angles that are adjacent and create a line.



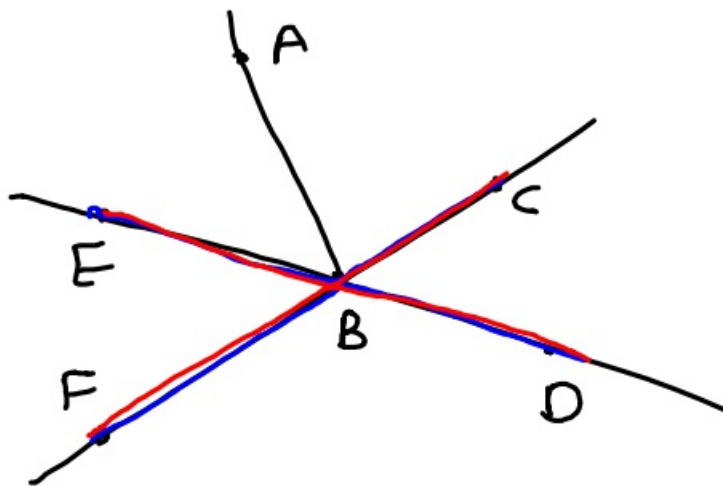
$\angle DAB + \angle BAC$  are a linear pair.

Complementary angles  $\rightarrow$  90°

Supplementary angles  $\rightarrow$  180°



Vertical angles

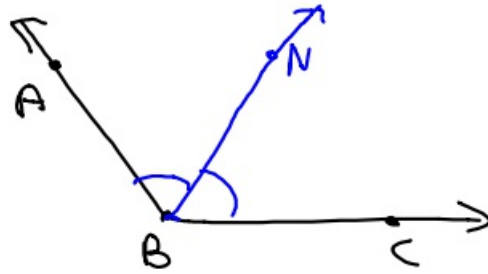


Name me some vertical  $\angle$ 's.

$\angle EBF \neq \angle CBD$

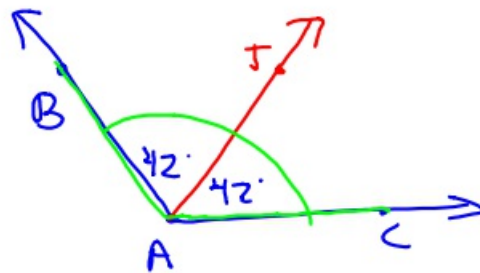
$\angle EBC + \angle FBD$

Bisect  $\rightarrow$  cut into 2 equal parts.

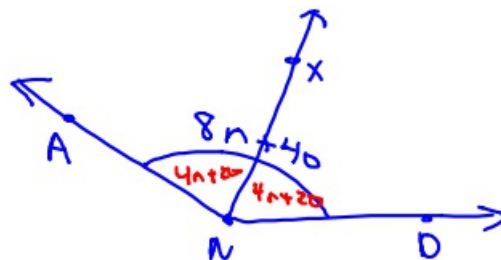


$$\angle ABN = \angle NBC$$

- ①  $\vec{AT}$  bisects  $\angle BAC$ . If  $\angle CAT = 42^\circ$ , what is  $\angle CAB$ ?  
84'



- ②  $\vec{NX}$  bisects  $\angle AND$ . If  $\angle AND = 8n + 40$ , what is  $\angle ANX$ ?  $4n + 20$



③  $\angle A$  and  $\angle B$  are vertical angles with  $\angle A = 4n + 20$  and  $\angle B = 2n + 60$ . What is the measurement of  $\angle A$ ?

$$\begin{array}{r} \angle A = \angle B \\ \downarrow \quad \downarrow \\ 4n + 20 = 2n + 60 \\ - 2n \quad - 2n \\ \hline 2n + 20 = 60 \\ - 20 \quad - 20 \\ \hline 2n = 40 \\ n = 20 \end{array}$$

Question says what is  $\angle A$ ?

$$\begin{aligned} \angle A &= 4n + 20 \\ &= 4 \cdot 20 + 20 \\ &= 100 \end{aligned}$$