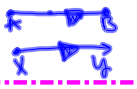
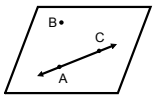
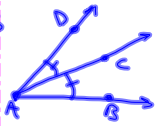
Unit 1 review

Define:

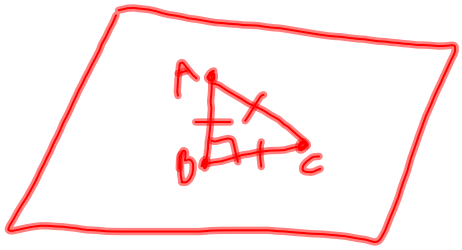
Bisector - divides into = parts
Angle - 2 rays same endpoint
Circle - points at = distance from center pt.
Collinear - pts on same line
⊥ Perpendicular - intersect @ 90° angle
∥ Parallel - never intersect on same plane
Intersecting - cross @ pt.
Ray - has endpoint extends one direction
Point - dot

Segment - part of a line w/ 2 endpts
Square
Coplanar - on same plane
Midpoint - divides segment in 2 = parts
Arc
Congruent - has same measure

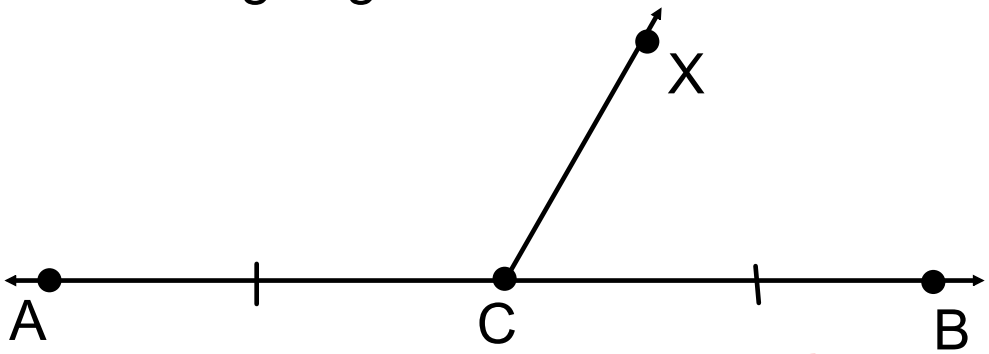
Notation	Picture	Words
$\overline{AB} \parallel \overrightarrow{XY}$		segment AB is parallel to ray XY
$\overleftrightarrow{XY} \perp \overline{XA}$		Line XY is perpendicular to segment XA
▱ABC with $\overline{AC}$		Plane BAC has line AC and point B not on line AC
$\angle DAC \cong \angle CAB$ $\overrightarrow{AC}$ bisects $\angle DAB$		ray AC bisects angle DAB

Draw the following

Points A, B, C are coplaner but not colinear. Segments AB, BC and AC are congruent. Angle ABC is a right angle.



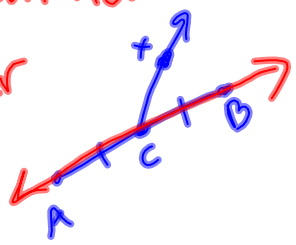
Whats going on in the Picture



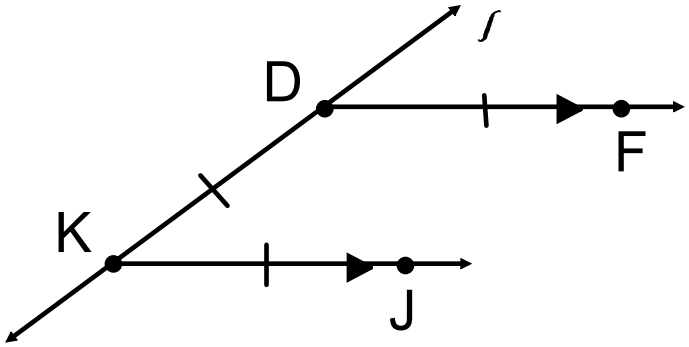
point C is the midpoint of $\overline{AB}$.

ray CX bisects segment AB.

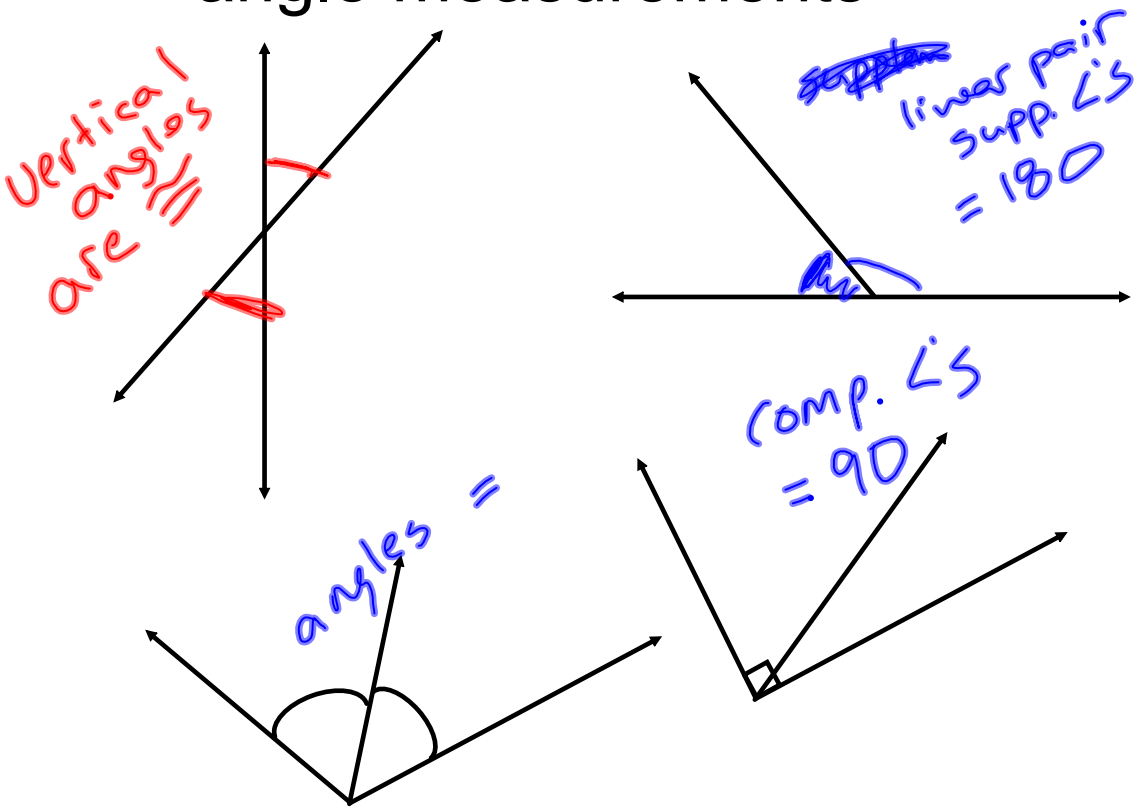
Points A, B, C are collinear



Describe the picture.



angle measurements

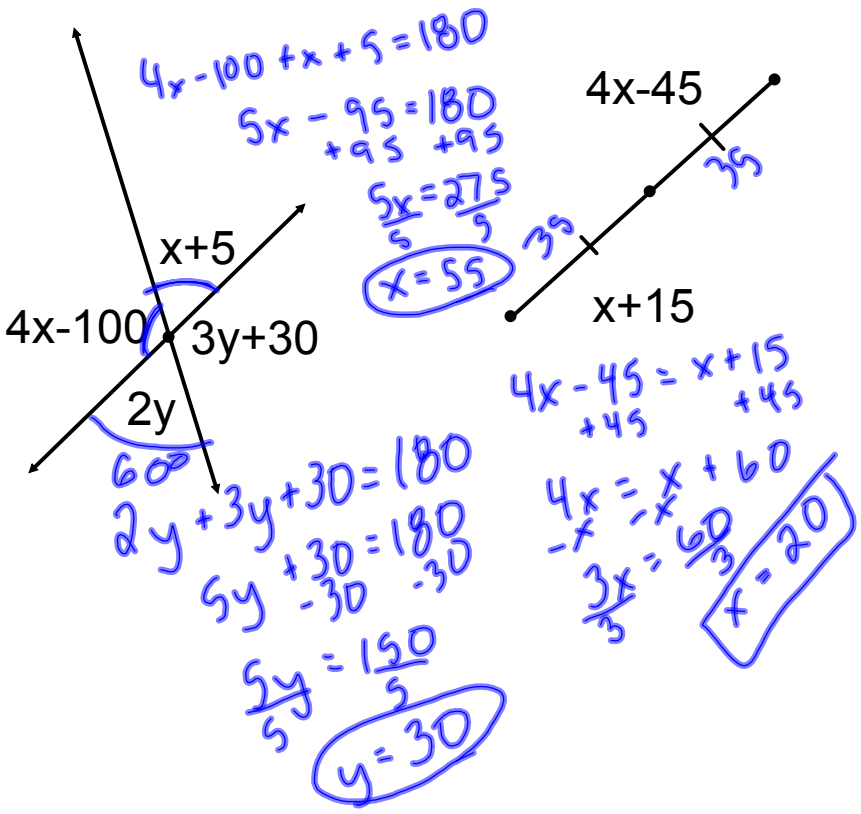


redraw as a geometric diagram:

Describe in words. Use 4 geometric words

∠ABD ≅ ∠CBD
AC has midpt D
AD ≅ DC AC ⊥ EB

Describe in notation. Use 4.



$4x-100+x+5=180$

$5x-95=180$

$+95 \quad +95$

$\frac{5x}{5}=\frac{275}{5}$

$x=55$

$4x-45=x+15$

$+45 \quad +45$

$4x=x+60$

$-x \quad -x$

$\frac{3x}{3}=\frac{60}{3}$

$x=20$

$2y+3y+30=180$

$5y+30=180$

$-30 \quad -30$

$\frac{5y}{5}=\frac{150}{5}$

$y=30$

Midpoint, Distance???

give me two points.

$(4,7) \quad +(-2,6)$

midpt: $\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

$\left(\frac{4+-2}{2}, \frac{7+6}{2}\right)=\left(1, \frac{13}{2}\right)$ 6.5

distance: $D=\sqrt{(x_1-x_2)^2+(y_1-y_2)^2}$

$\sqrt{(4--2)^2+(7-6)^2}$

$\sqrt{37}$

$\sqrt{36+}$