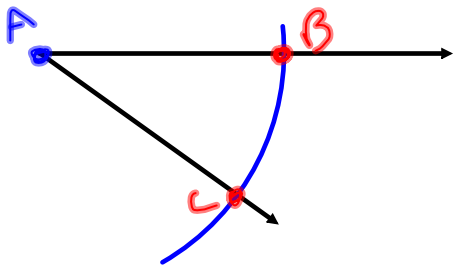
Geometry Unit 3 Review Problems

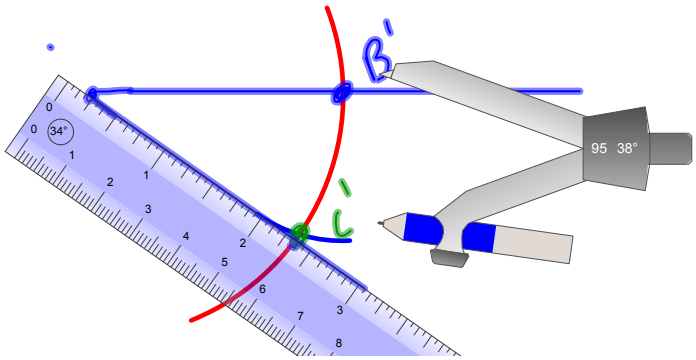
Know how to do the following constructions

- Copy a segment
- Copy an angle
- Parallel Line through a point

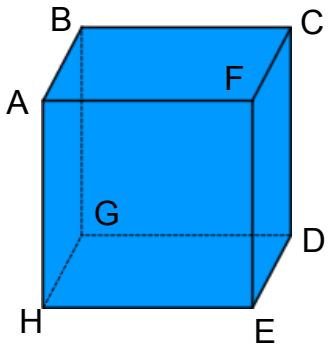
Do the constructions

There are videos on my website.



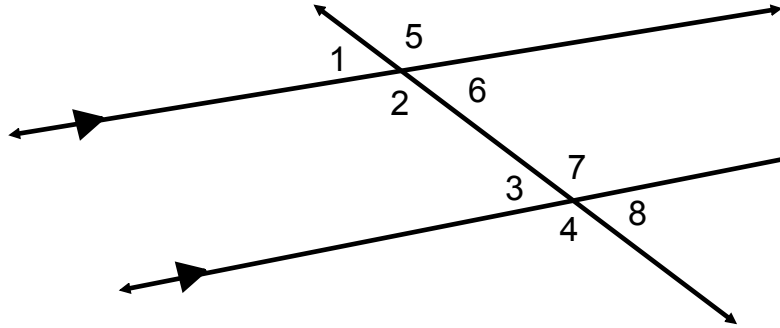


name skew, parallel, perpendicular segments



- know/apply: Properties of transversals

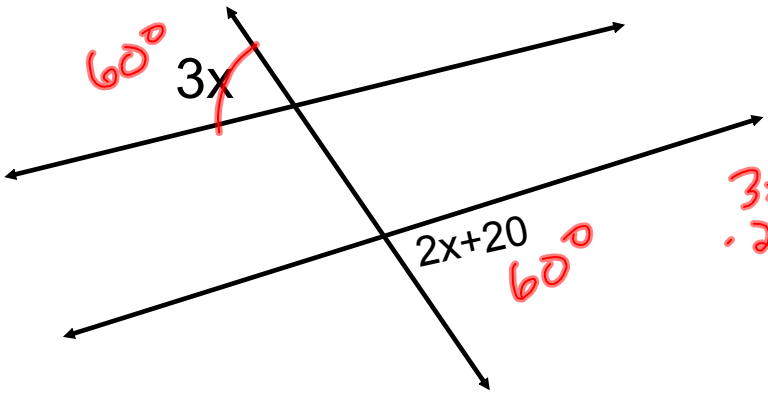
label and name important angle pairs



3, 7 linear pair

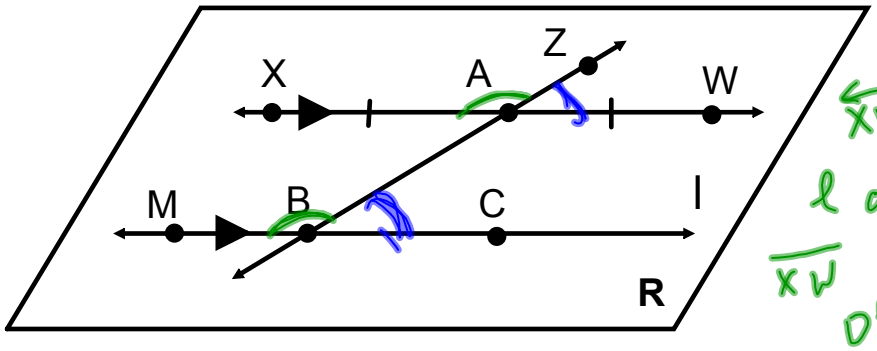
1, 6 → vert ∠s
1, 8 → alt ext
1, 3 ⇒ corres.
2, 3 → cons int
2, 7 → alt int
5, 3 supplement

Make the lines parallel. What makes them parallel? What are the angle measurements?



$3x = 2x + 20$
$-2x \quad -2x$
$x = 20$

Name 3 things I can conclude



$\overleftrightarrow{XW} \parallel \overleftrightarrow{MC}$
l on plane R
$\overline{XW}$ has midpt of a

What are two other things you can conclude from the picture that is not shown?

What is something I could conclude from the picture?

$\angle XAZ \cong \angle MBA$
$\angle ZAW \cong \angle CBR$

Give statements and reasons for....

3x+8=-2(2x+17)

Have your reasons paper filled out.

KEY AREAS:

Definitions

Angle Relationships

Properties

Name the property

if $\angle RST \cong \angle MNP$ then $\angle MNP \cong \angle RST$

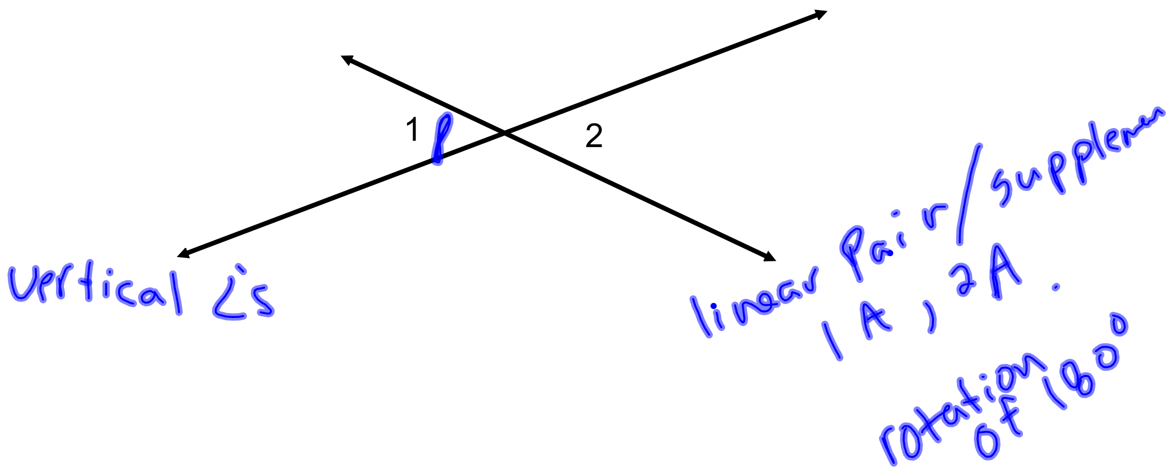
Symmetric

If $\overline{AB} \cong \overline{XY}$ and $\overline{AB} \cong \overline{GH}$ then $\overline{XY} \cong \overline{GH}$

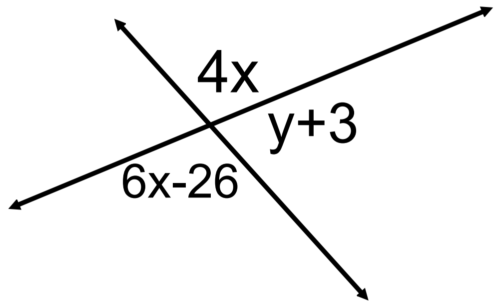
transitive

- Know/Apply: Theorems for right angles, vertical angles, complementary, supplementary angles, linear pairs

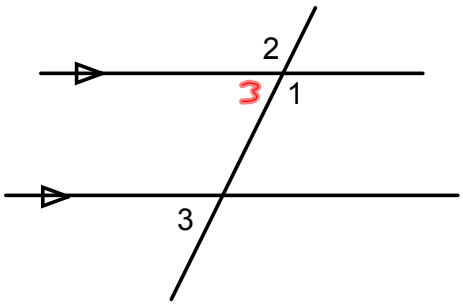
- name 3 reason 1=2



how do I find x?
Find x and the angles

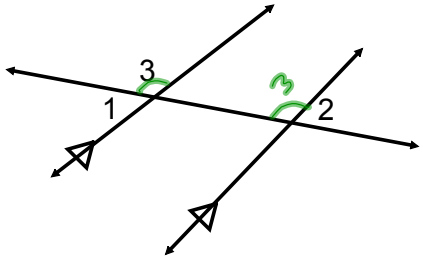


Whats the relationship between 2 and 3?



sum to 180

How are 1 and 2 realted to 3?

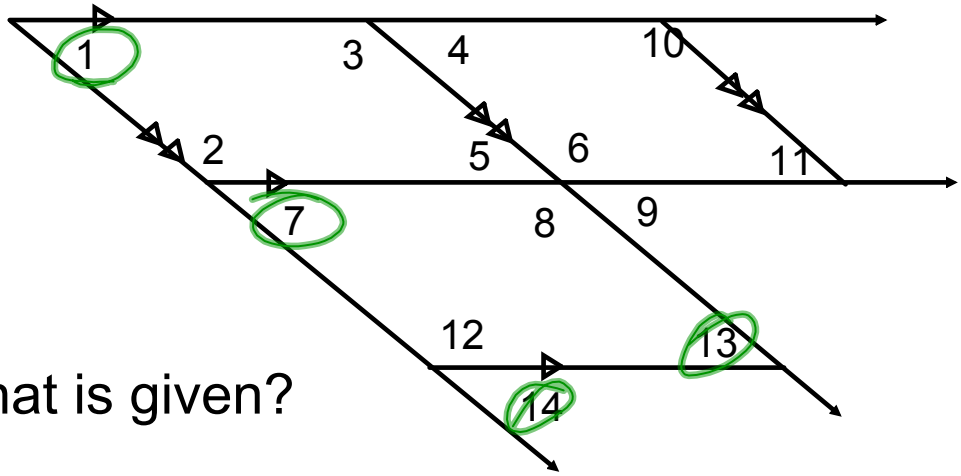


$\angle 1, \angle 3$ linear pair $= 180$

$\angle 1 \cong \angle 2$ alt ext

$\angle 2, \angle 3 = 180$

Prove <1 and <13 are congruent.



What is given?

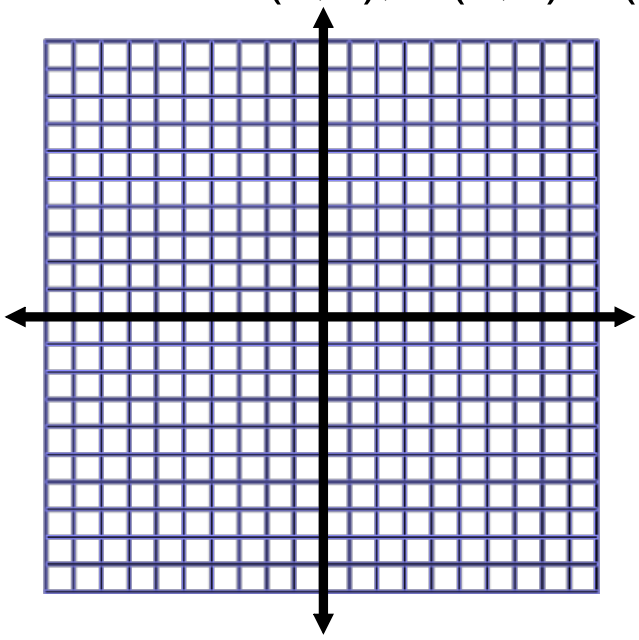
Words

Notation

Ray XY is a perpendicular bisector of segment AB

Picture

Preform a 90 degree rotation of triangle ABC. A(3,1), B(6,5) C(-1,3)



How many degrees of symmetry does the picture have?

Find the midpoint and distance between (-2,4) and (3,5)

$\left(\frac{-2+3}{2}, \frac{4+5}{2}\right)$

$\left(\frac{1}{2}, \frac{9}{2}\right)$

$\sqrt{(3-2)^2+(5-4)^2}$

$\sqrt{25+1}$

$\sqrt{26}$

find x and <1