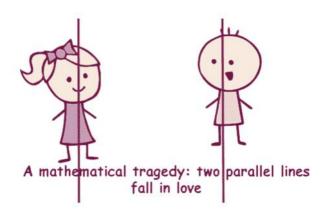
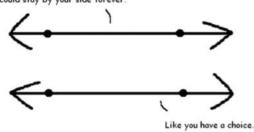
FOM 11: Ch 2 Geometry





The love shared by Parallel Lines.....
.....is a sweet, sarcastic one...

I could stay by your side forever.







Ms. Kamber

UBC Museum of Anthropology

Relationships between Ang	les and Lines	
Transversal		aline that intersects (crosses) 2 or more line
Symbol: 4	<i>⇒</i> 11	lines that hever meet
Perpendicular Lines Symbol: 1	90°	
Corresponding angles	c/a	L's in the same relative place eg, "upper "right"
Alternate interior angles on opposite in side sides of the 2 transversal limit	19/2	on upp. Sidus of trans versal, both in side the 2 lines
Alternate exterior angles Out side the	a/b	
(Interior <u>angles</u> on the Same Side of the Transversal (ISST)	b/a b/a	

Example 1: From the diagram, identify pairs of:

A) Corresponding angles: \(\frac{1}{4} + \left(5, \left(2 + \left(6, \left(3 + \left(7 + \left(7

C) Alternate exterior angles: C) Alternate exterior angles: 2/12 / 22167
D) Interior angles on the Same Side of the Transversal:

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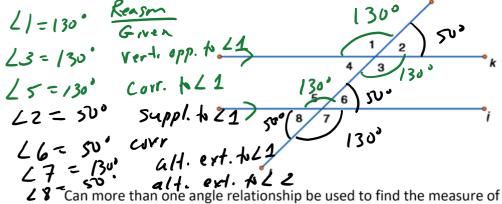
If two lines are parallel, then:

- Corresponding angles are ________("Equal" also means congruent_.)

. Interior angles on the same side of the transversal are Supplementary

So to prove that 2 lines are parallel, you need to show any of the above!

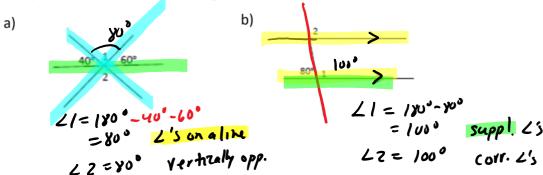
Example 2: Given that the horizontal lines are parallel and that angle 1 is equal to 130°, find the measurement of the other missing angles.



Can more than one angle relationship be used to find the measure of some of the angles? Explain using an example.

gles? Explain using an example.

Example 3: Find each indicated **angle**. For each one, state the **reason**:



Assignment:

- "Why did Orgo iron his 4-leaf clover?" (CC-12)
- "What is unusual about the new surgeon doll? (CC-13)
- Make up your own question involving ISST angles and solve it.

Ms. Kamber