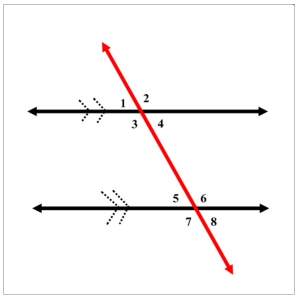
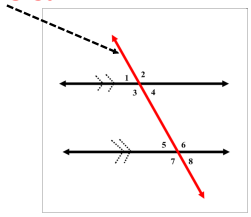
Parallel Lines and Their Angles



Oct 26-11:34 AM

Transversal

When a line intersects two parallel lines, eight angles are formed.
The line is called a Transversal



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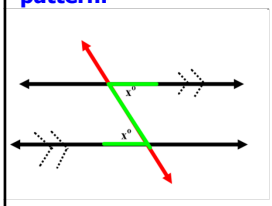
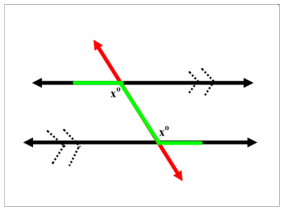
Alternate interior Angles

Alternate Interior Angles are equal and form a "Z" pattern.

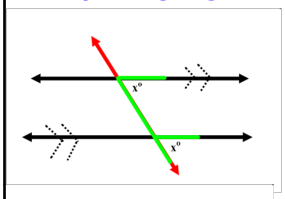


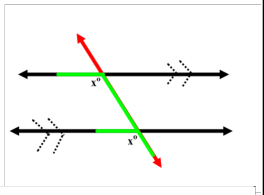


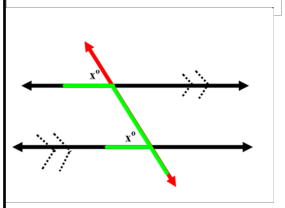
Oct 26-11:36 AM

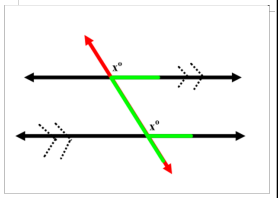
Corresponding Angles

Corresponding Angles are equal and form a "F" pattern.





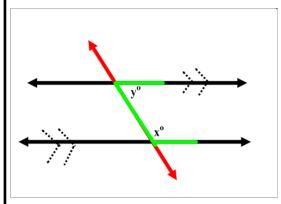


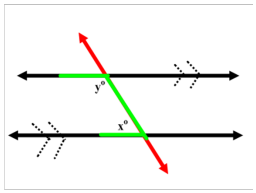


Oct 26-11:38 AM

Co-interior Angles

Co-interior Angles have a sum of 180° and form a "C" pattern. (x° + y° = 180°)

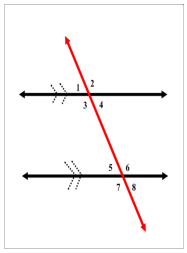




Oct 26-11:39 AM

From the diagram, name all the Alternate Interior Angles.

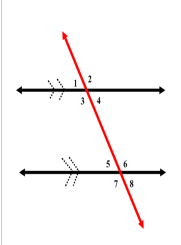
angle 3 = angle 6
angle 4 = angle 5



Oct 26-11:41 AM

From the diagram, name all the Corresponding Angles.

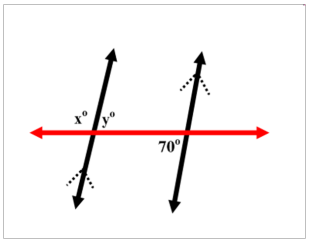
angle 4 = angle 8
angle 3 = angle 7
angle 2 = angle 6
angle 1 = angle 5



Oct 26-11:43 AM

Example 1:

CALCULATE THE UNKNOWN ANGLE MEASURES.

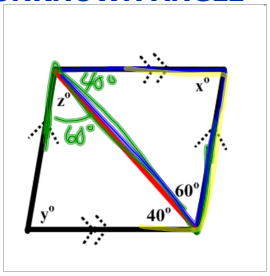


Oct 26-11:45 AM

Warm-up Oct. 28, 2011

CALCULATE THE UNKNOWN ANGLE MEASURES.

z = 60°
x = 80°
y = 80°



Oct 26-11:46 AM

Math 10 Parallel lines and their Angles Name _____

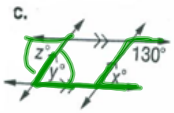
1. Calculate the unknown angle measures.

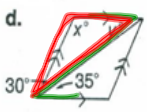
a. x = 110°
y = 70°
z = 110°

b. x = 65°
y = 65°
z = 115°

Oct 28-10:34 AM

c.
x = 50°
y = 50°
z = 50°





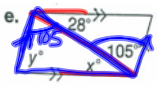
d. x = 115°
y = 35° (180-30-35)

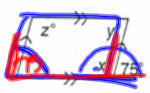
Oct 28-10:35 AM

x = 28°
y = 27°
180-153

105
28
153

f) x = 105°
y = 75°
z = 105°



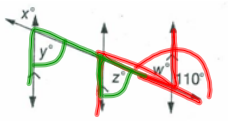


75+105+75
255
360
-255
105

Oct 28-10:35 AM

W = 70°
X = 70°
Y = 70°
Z = 70°

g.



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Oct 28-11:37 AM