Homework solutions

Pg. 233 - 234

2. a) ∠6 b) ∠3
   c) ∠3 d) ∠3

3. a) ∠7, using lines ℓ_3 and ℓ_4 with transversal ℓ_1.
   ∠3, using lines ℓ_1 and ℓ_2 with transversal ℓ_3.
   b) ∠4, using lines ℓ_3 and ℓ_4 with transversal ℓ_2.
   c) ∠10, using lines ℓ_3 and ℓ_4 with transversal ℓ_2.
   d) ∠5, using lines ℓ_3 and ℓ_4 with transversal ℓ_2.

Pg. 235

4. CB and BD intersect AB and AD.

5. Line t cannot be a transversal because it does not pass through two distinct points. It is concurrent to ℓ_1 and ℓ_2 because they all pass through the same point.

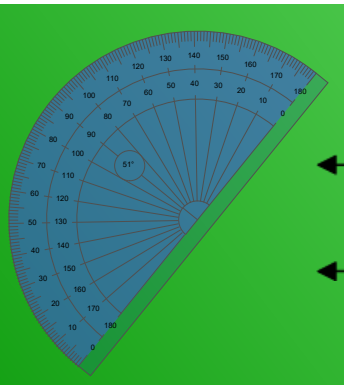
6. t and ~~ℓ_3 are intersected by ℓ_1 and ℓ_2.~~

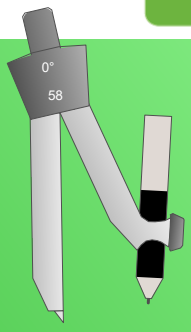
May 14-11:10 PM

GMF 10 Lesson 7.4

Parallel Lines and Transversals

7.4

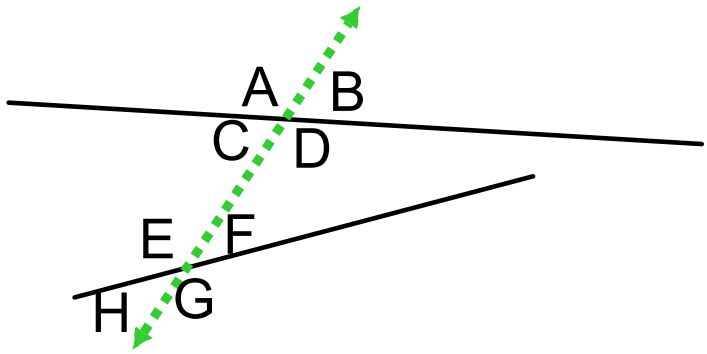




Sep 23-3:37 PM

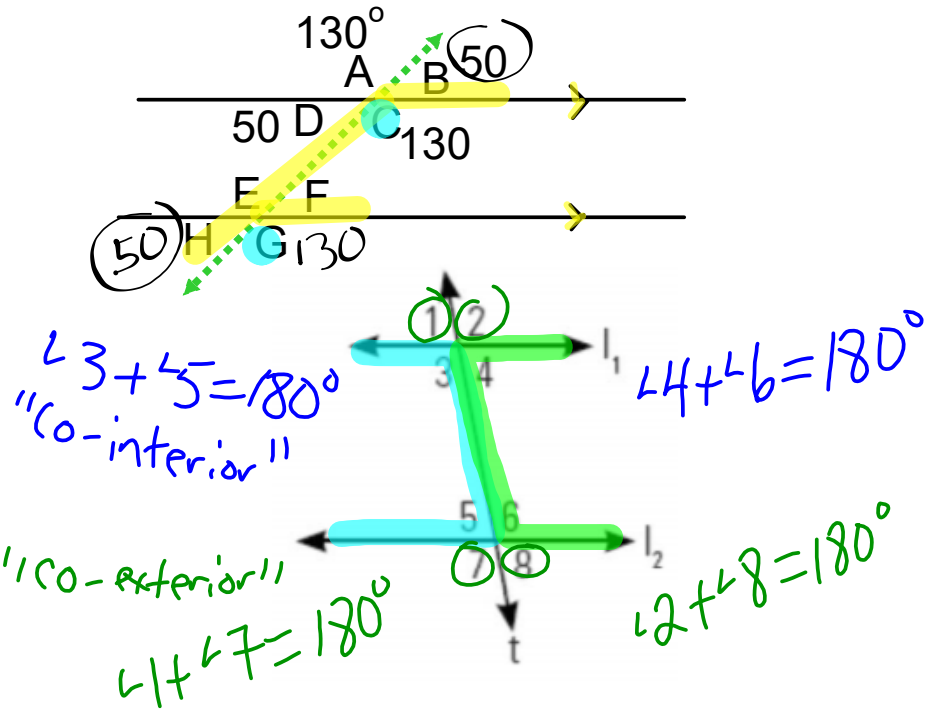
Lets review Parallel and non-parallel lines

Non-parallel line relationships: (lines that will intersect)



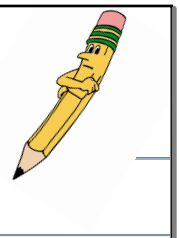
Dec 9-1:42 PM

Parallel line relationships:



Dec 9-1:49 PM

Rules (postulates) of parallel line relationships:



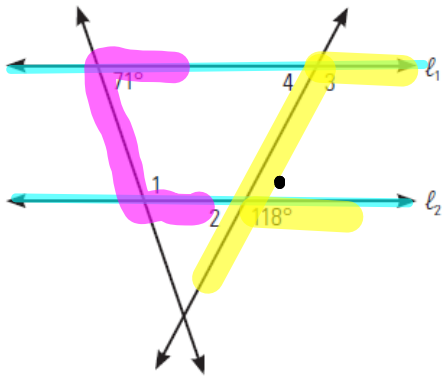
- Vertically opposite angles (equal)
- Co - interior (add to equal 180°)
- Corresponding (equal)
- Straight or adjacent (add to equal 180°)
- Alternate interior (equal)
- Alternate exterior (equal)
- Co - exterior (add to equal 180°)

Feb 13-4:41 PM

Pg. 240

BUILD YOUR SKILLS

1. In the diagram below, ℓ_1 is parallel to ℓ_2. State the measures of the indicated angles and explain your reasoning.



$\angle 3 = 118°$

$\angle 2 = 62°$ (180 − 118)

$\angle 4 = 62°$ (180 − 118)

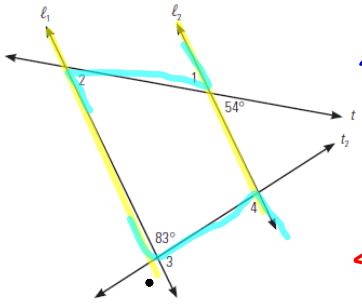
$\angle 1 = 109$ (180 − 71)

Apr 4-10:39 AM

BUILD YOUR SKILLS

Pg. 244

7. If ℓ_1 and ℓ_2 are parallel and are intersected by transversals t_1 and t_2, what are the measures of the indicated angles? Solve for the measures in the given order, stating your reasoning.



$\angle 1 = 54^\circ$ opposite

$\angle 2 = 54^\circ$ alternate interior

$\angle 3 = 97^\circ$ supplementary $(180 - 83)$

$\angle 4 = 83^\circ$ alternate interior

SOLVING ANGLE MEASURES	
Angle Measure	*Reason*
∠1 =	
∠2 =	
∠3 =	
∠4 =	

Apr 4-10:43 AM

Homework

Do 7.4 worksheet

Pg. 240 - 241 Q. 2 & 3

Pg. 242- 243 Q. 4 - 6

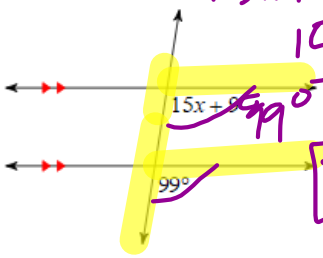
Pg. 245 Q. 8 & 9

May 8-9:43 PM

GMF 10 - 7.4 -Parallel Lines & Angles Name_____

Solve for *x*.

1)



$-9 \quad -9$

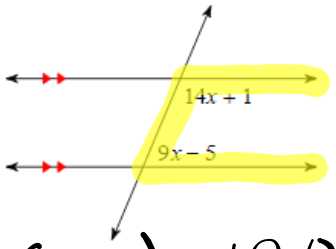
$15x + 9 = 99$

$15x = 90$

$\frac{15x}{15} = \frac{90}{15}$

$x = 6$

2)



$(14x + 1) + (9x - 5) = 180$

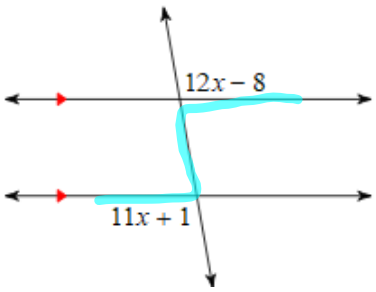
$23x - 4 = 180$ $+4 \quad +4$

$\frac{23x}{23} = \frac{184}{23}$

$x = 8$

Nov 13-1:42 PM

4)



$12x - 8 = 11x + 1$

Nov 13-2:03 PM