4.5 notes

Thursday, November 14, 2013
6:47 AM

Geo H
Notes
4.5

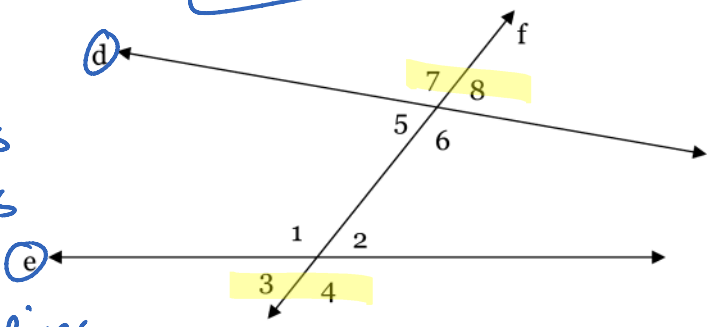
4.5 Introduction to Parallel Lines

& relationships

Transversal – line f.

Label the interior region: ∠
↳ space between 2 lines

Label the exterior region
↳ space outside 2 lines



Types of Angles formed by a Transversal:

transversal 2 lines

1) Consecutive (same side) Interior Angles:

∠1 and ∠5 ∠2 and ∠6

2) Consecutive (same side) Exterior Angles:

∠3 and ∠7 ∠4 and ∠8

3) Alternate Interior Angles:

∠5 and ∠2 ∠6 and ∠1

4) Alternate Exterior Angles:

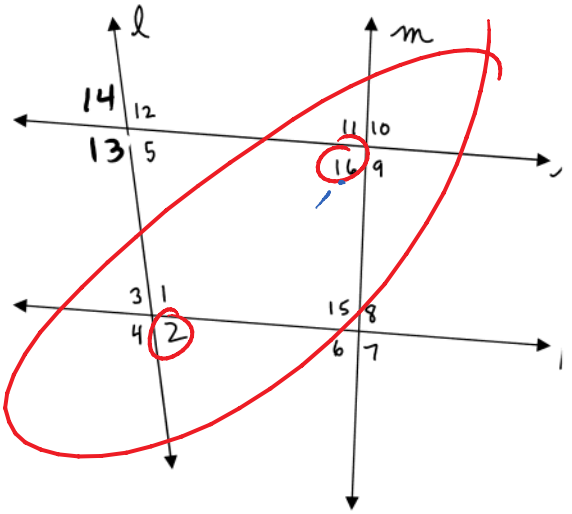
∠7 and ∠4 ∠8 and ∠8

5) Corresponding Angles:

∠7 and ∠1 ∠8 and ∠2 ∠6 and ∠4 ∠5 and ∠3

Parallel Lines

Symbol: || Example:



∠1 and ∠5 are same side int. angles

∠14 and ∠2 are Alt. ext ∠'s angles

∠12 and ∠1 are corresponding angles

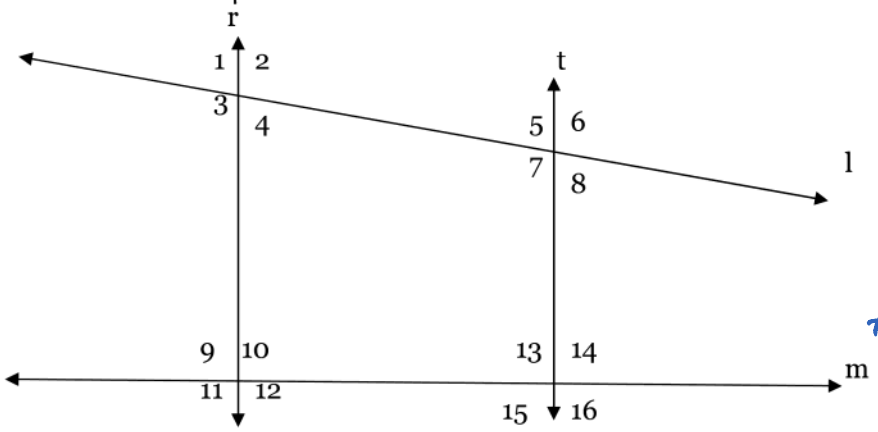
∠13 and ∠16 are corresponding angles

∠15 and ∠16 are same side int angles

∠3 and ∠7 are Alt. ext. ∠'s angles

∠16 and ∠2 are None || angles

Use the picture below to answer questions 1 – 9.



Corr.

Alt. ext. ∠'s

1) Are ∠1 and ∠12 alternate interior angles?

No

2) Are ∠1 and ∠16 alternate exterior angles?

No

3) What kind of angles are ∠7 and ∠2?

Alt. int. ∠'s

4) What kind of angles are ∠7 and ∠8?

Supp

5) Name two pairs of alternate interior angles along transversal t.

6) Name two pairs of alternate exterior angles along transversal m.

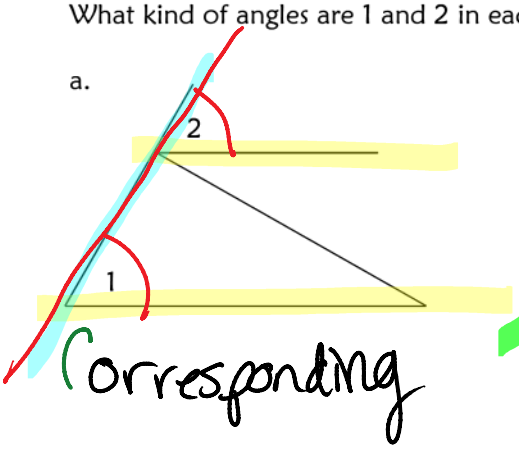
7) Name two pairs of corresponding angles along transversal l.

8) Name two same side exterior angles.

9) Name two same side interior angles.

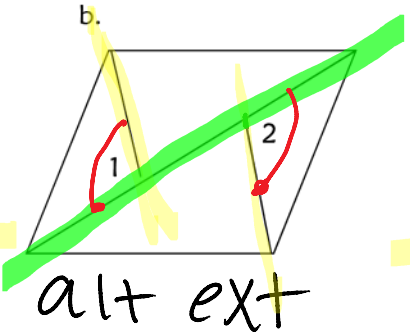
What kind of angles are 1 and 2 in each of the following?

a.



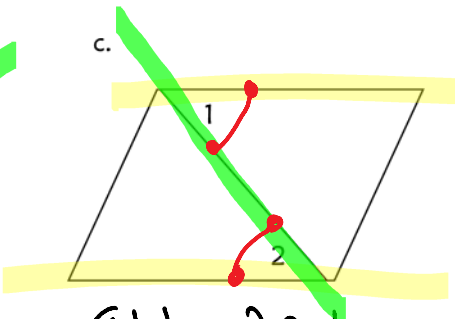
Corresponding

b.



alt ext

c.



alt int