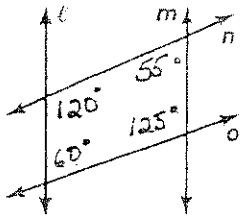
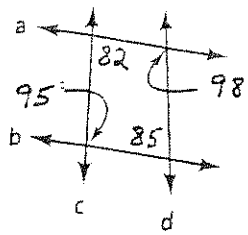
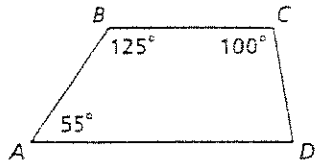
3.1- 3.2 Review - Must be on a separate sheet of paper!

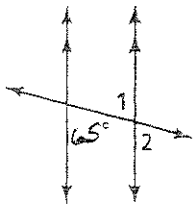
Which lines or segments are parallel? Justify your answer with a theorem or postulate.

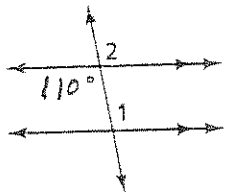
1. 

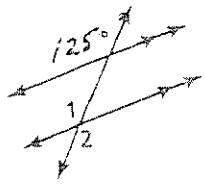
2. 

3. 

Find $m\angle 1$ and then $m\angle 2$. Justify each answer with a theorem or postulate.

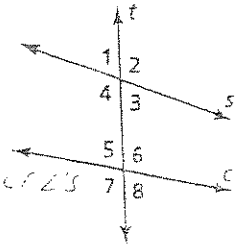
4. 

5. 

6. 

when you justify, do not just put the ∠ type. Must put full theorem or postulate IF..., then.

Use the figure on the right to answer Exercises 7–9.

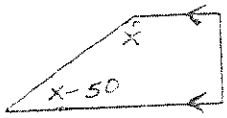


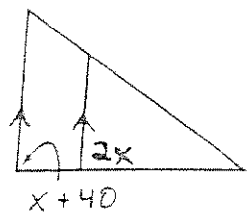
7. Name all pairs of corresponding angles formed by the transversal t and lines s and c.

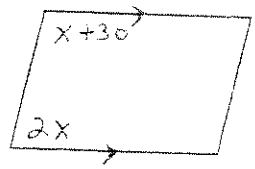
8. a) Name all pairs of alternate interior angles formed by the transversal t and lines s and c.
b) Name all alternate exterior ∠'s

9. a) Name all pairs of same-side interior angles formed by the transversal t and lines s and c.
b) Name all same side interior ∠'s

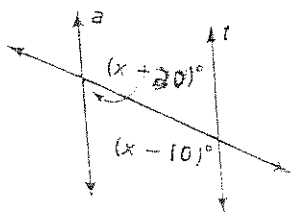
Algebra **Find the value of x. Then find the measure of each angle.**

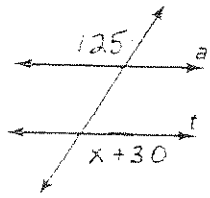
10. 

11. 

12. 

Algebra **Find the value of x for which $a \parallel t$.**

13. 

14. 

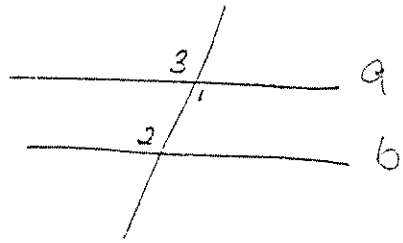
OVER

Do a 2 column proof for:

5. If 2 lines and a transversal form congruent <u>alternate interior</u> angles, then the 2 lines are parallel.

Given: _____

Prove: _____



Do 2 column proof!

16. Given: $a \parallel b$, $b \parallel c$

Prove: $\angle 1 \cong \angle 3$