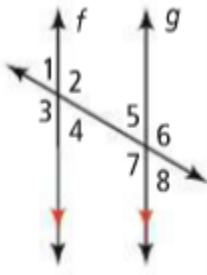


DAY 7 - 32 HOMEWORK
 Page 152 #1-4, 7, 13, 16-18, 22

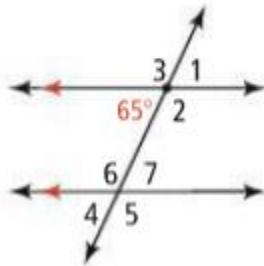
Use the diagram for Exercises 1-4.

1. Identify four pairs of congruent angles. (Exclude vertical angle pairs.)
2. Identify two pairs of supplementary angles. (Exclude linear pairs.)
3. If $m\angle 1 = 70$, what is $m\angle 8$?
4. If $m\angle 4 = 70$ and $m\angle 7 = 2x$, what is the value of x ?

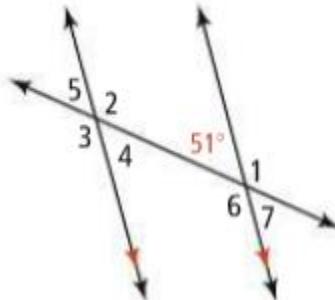


Identify all the numbered angles that are congruent to the given angle.
 Justify your answers.

7.



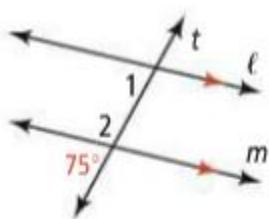
8.



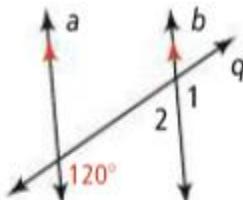
PROBLEM

Find $m\angle 1$ and $m\angle 2$. Justify each answer.

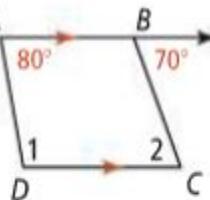
12.



13.



14.



See Problem

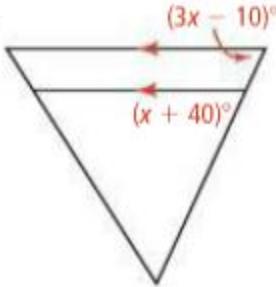
Algebra Find the value of x . Then find the measure of each labeled angle.

See Problem

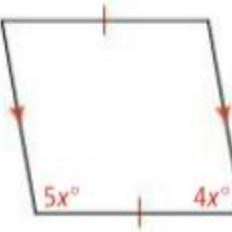
15.



16.

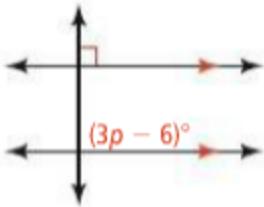


17.



Algebra Find the values of the variables.

18.



19.



22. **Error Analysis** Which solution for the value of x in the figure at the right is incorrect? Explain.

A.

$$2x = x + 75 \\ x = 75$$

B.

$$2x + (x + 75) = 180 \\ 3x + 75 = 180 \\ 3x = 105 \\ x = 35$$

