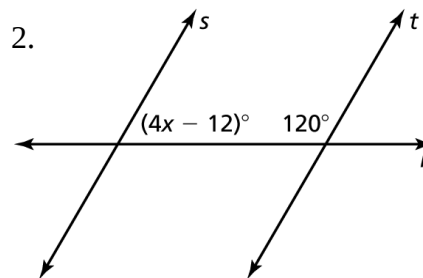
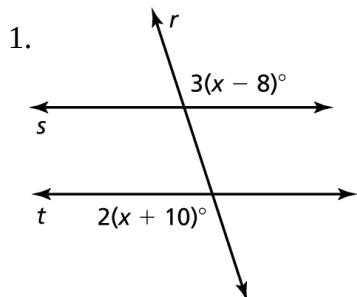
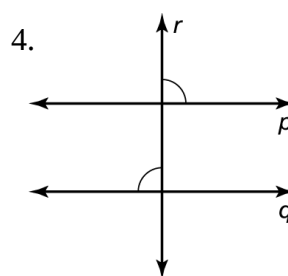
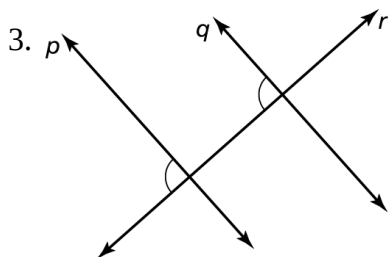


HW #3-5

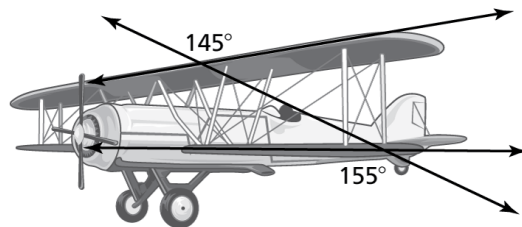
For #1 and #2, find the value of x that makes $s \parallel t$



For #3 and #4, decide whether there is enough information to prove that $p \parallel q$. If so, state the theorem or postulate you would use.



5. The angles formed between the braces and the wings of a biplane are shown in the figure. Are the top and bottom wings of a biplane parallel? Explain your reasoning.

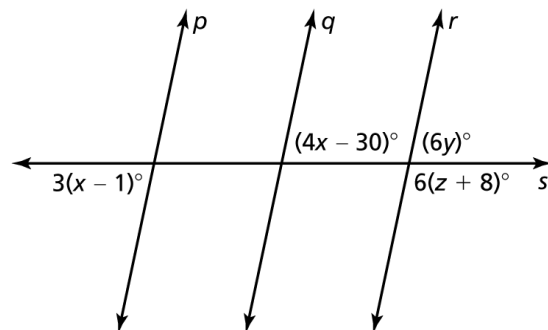


6. Use the diagram to answer the following:

a. Find the values of x that makes $p \parallel q$

b. Find the value of y that makes $q \parallel r$

c. Is $p \parallel r$? Explain your reasoning.



7. In the diagram at right, $e \parallel d$, $g \parallel f$, and $a \parallel b \parallel c$. Find the following:

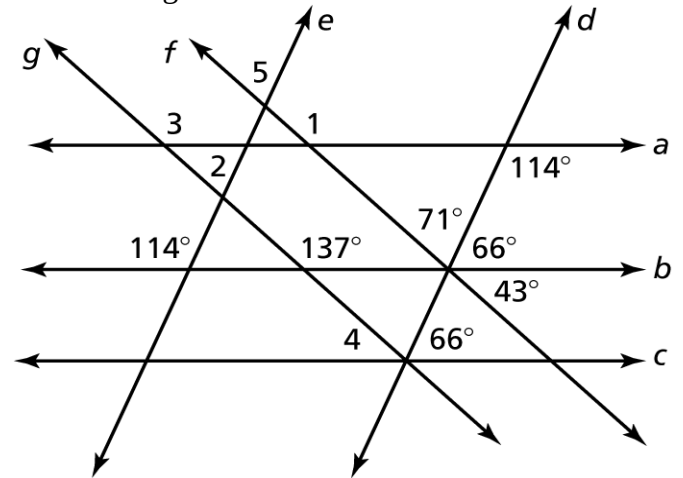
a. $m\angle 1$

b. $m\angle 2$

c. $m\angle 3$

d. $m\angle 4$

e. $m\angle 5$



8. Write a flow chart proof. (HINT: use the Congruent Supplements Theorem [$\cong$ supps. thm] in your proof ☺)

Given: $\angle 1$ and $\angle 2$ are supplementary

Prove: $p \parallel q$

