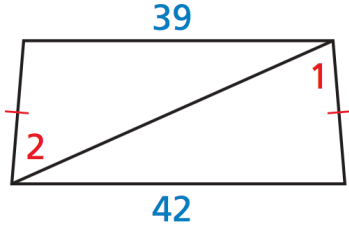
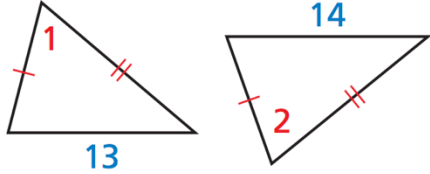
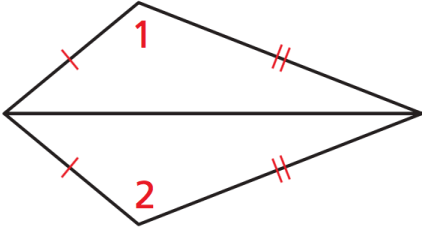
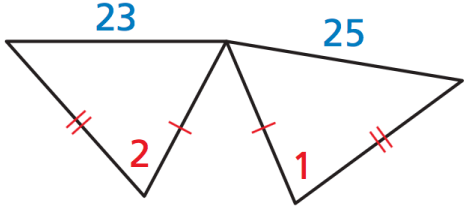
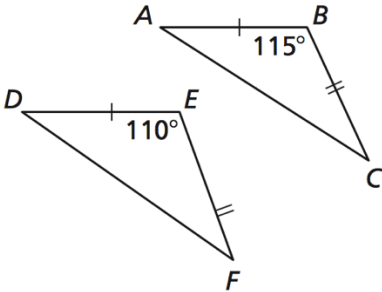
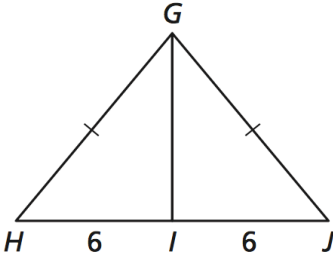


6.6 Inequalities in Two Triangles

Complete the statement with $<$, $>$, or $=$. Explain your reasoning.

<p>1. $m\angle 1$ _____ $m\angle 2$</p> 	<p>2. $m\angle 1$ _____ $m\angle 2$</p> 
<p>3. $m\angle 1$ _____ $m\angle 2$</p> 	<p>4. $m\angle 1$ _____ $m\angle 2$</p> 
<p>5. AC _____ DF</p> 	<p>6. $m\angle HGI$ _____ $m\angle IGJ$</p> 

7. $m\angle 1$ _____ $m\angle 2$

8. KL _____ MN

9. BC _____ DE

10. JI _____ GH

11. $m\angle 1$ _____ $m\angle 2$

12. $m\angle U$ _____ $m\angle R$

Name: _____ Date: _____ Per: _____

In exercise 13 and 14, you and your friend leave on different flights from the same airport. Determine which flight is farther from the airport. Explain your reasoning.

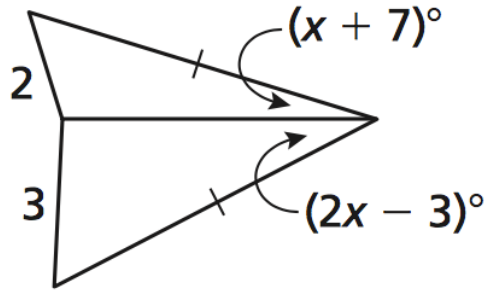
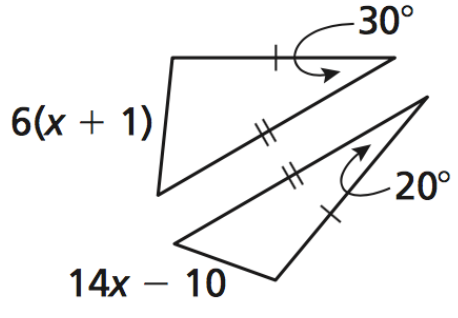
13. Your flight: Flies 100 miles due west, then turns 20 degrees toward north and flies 50 miles.

Friend's flight: Flies 100 miles due north, then turns 30 degrees toward east and flies 50 miles

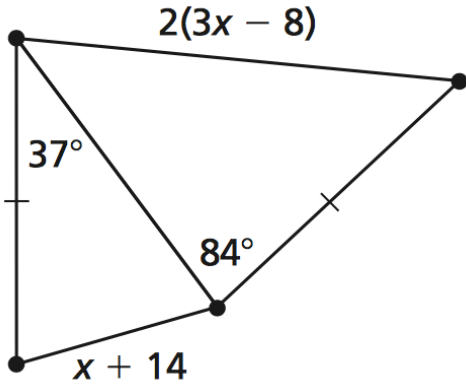
14. Your flight: Flies 210 miles due south, then turns 70 degrees toward west and flies 80 miles.

Friend's flight: Flies 80 miles due north, then turns 50 degrees toward east and flies 210 miles

Write and solve an inequality for the possible values of x .

<p>15.</p> 	<p>16.</p> 
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17.



18.

