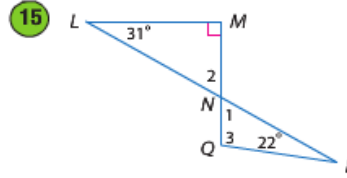
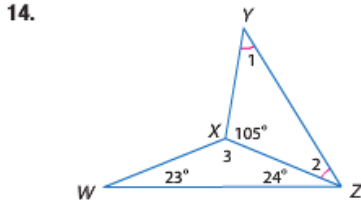


LT 2.2 Homework

Example 1 Find the measure of each numbered angle.

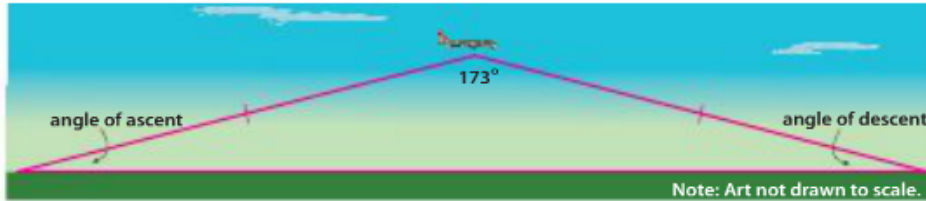


14.
 $m\angle 1 = 37.5$,
 $m\angle 2 = 37.5$,
 $m\angle 3 = 133$



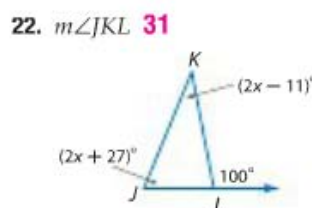
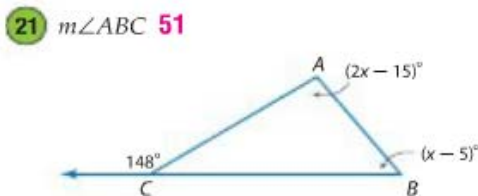
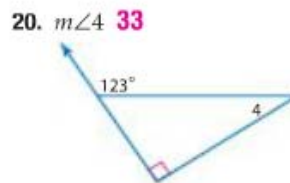
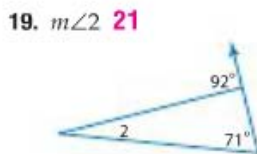
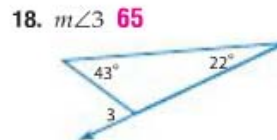
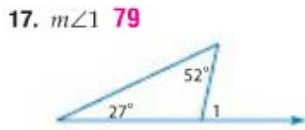
15. $m\angle 1 = 59$,
 $m\angle 2 = 59$,
 $m\angle 3 = 99$

16. **AIRPLANES** The path of an airplane can be modeled using two sides of a triangle as shown. The distance covered during the plane's ascent is equal to the distance covered during its descent.



- Classify the model using its sides and angles. **isosceles, obtuse**
- The angles of ascent and descent are congruent. Find their measures. **3.5**

Example 2 Find each measure.



Example 3

23. WHEELCHAIR RAMP Suppose the wheelchair ramp shown makes a 12° angle with the ground. What is the measure of the angle the ramp makes with the van door? **78**



CCSS REGULARITY Find each measure.

24. $m\angle 1$ **62**

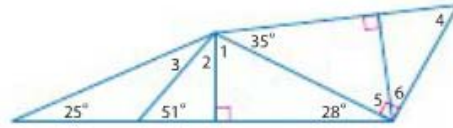
25. $m\angle 2$ **39**

26. $m\angle 3$ **26**

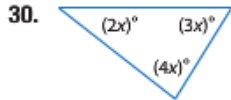
27. $m\angle 4$ **55**

28. $m\angle 5$ **55**

29. $m\angle 6$ **35**



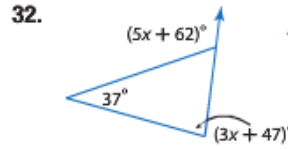
B ALGEBRA Find the value of x . Then find the measure of each angle.



$x = 20; 40, 60, 80$



$x = 30; 30, 60$



$x = 11; 80, 117$