

1.  $\overline{VX}$ ; Converse of Isosc.  $\triangle$  Thm.
2.  $\overline{UW}$ ; Converse of Isosc.  $\triangle$  Thm.
3.  $\overline{VY}$ ; Converse of Isosc.  $\triangle$  Thm.
4. Answers may vary. Sample:  $\angle VUY$ ; Isosc.  $\triangle$  Thm.
5.  $x = 80, y = 40$
6.  $x = 40, y = 70$
7. 108
8. a. 70  
b. 53
9. a. 75  
b. 48
10. 23, 134
11. a. The  $\sphericalangle$ s opposite the  $\cong$  sides are  $\cong$ .  
b. All three  $\sphericalangle$ s have measure 60, and all three sides are  $\cong$ .
12. The  $\cong$   $\sphericalangle$ s should be opposite the  $\cong$  sides.
13. 52, 52
14. 45 and 45; the sum of the measures of the acute  $\sphericalangle$ s must be 90, so the measure of each acute  $\sphericalangle$  must be half of 90.
15. 64
16. 2.5
17. 42
18. 35