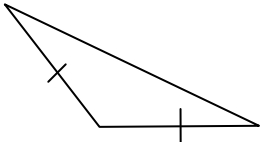
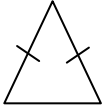
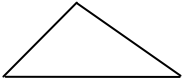


### Lesson 3.3

#### Homework Answers

Pg 134 - #1-11, 17-33 odd, 43-49 odd, 52, 64-67

Pg 139 - #1-10

1. 30
2. 83.1
3. 90
4. 71
5. 90
6.  $x = 70$ ;  $y = 110$ ;  $z = 30$
7.  $t = 60$ ;  $w = 60$
8.  $x = 80$ ;  $y = 80$
9. 70
10. 30
11. 60
17. Not possible; a rt  $\Delta$  will always have one longest side opp. the rt  $\angle$  because it must be the largest  $\angle$ .
19. 
21. 
23. 
25. a) 2    b) 6
27. 115.5
29.  $x = 147$ ,  $y = 33$
31.  $x = 52.5$ ; 52.5, 52.5, 75; acute
33.  $x = 37$ ; 37, 65, 78; acute
43. a) 40, 60, 80    b) acute
45. 100
47. 32
49. a)  $\angle$  Add    b)  $\Delta$   $\angle$  - Sum  
c) Trans.    d) Subtr.

52. a) 81    b) 45, 63, 72    c) acute
64. B
65. G
66. B
67. H

#### Pg 139

1. Corr  $\angle$ 's Post
2. Conv of Corr  $\angle$ 's Post
3. Same-Side Int  $\angle$ 's Thm
4. Conv of Alt. Int.  $\angle$ 's Thm
5. Vert  $\angle$ 's Thm
6. Alt. Int.  $\angle$ 's Thm
7. Conv of Corr  $\angle$ 's Post
8. Corr  $\angle$ 's Post
9. Conv of Same-Side Int  $\angle$ 's Thm
10. 38, 55, 87; acute  
55, 26, 99; obtuse