Ch 3 Pract Test

1. F
2. F
3. F
4. T
5. F
6. F
7. F
8. T

9. $m\angle 1 = 120$, $m\angle 2 = 120$ (Corr $\angle$'s Post or Alt Int $\angle$'s Thm) and Vert $\angle$'s Thm

10. $m\angle 1 = 90 \rightarrow$ SSI $\angle$'s Thm
    $m\angle 2 = 90 \rightarrow$ Vert $\angle$'s Thm

11. $m\angle 1 = 73 \rightarrow$ Alt Int $\angle$'s Thm
    $m\angle 2 = 80 \rightarrow$ SSI $\angle$'s Thm

12. $m\angle 1 = 80 \rightarrow$ Corr $\angle$'s Post
    $m\angle 2 = 100 \rightarrow$ SSI $\angle$'s Thm

13. $m\angle 1 = 88 \rightarrow$ Corr $\angle$'s Post
    $m\angle 2 = 92 \rightarrow$ SSI $\angle$'s Thm

14. $m\angle 1 = 150 \rightarrow$ Corr $\angle$'s Post & $\angle$ Add Post
    $m\angle 2 = 91 \rightarrow$ Corr $\angle$'s Post & Vert $\angle$'s Thm

17. $\overline{AB} \parallel \overline{ED}$

18. $\overline{AE} \parallel \overline{BD}$

19. $\overline{BE} \parallel \overline{CD}$ $(m\angle 3 + m\angle 4) + m\angle 5 = 180$

20. none

21. none

22. $\overline{AE} \parallel \overline{BD}$ and $\overline{BE} \parallel \overline{CD}$
    $\angle 9 \cong \angle 6$ $\angle 6 \cong \angle 3$

Ch 3 Pract Test cont

23. $x = 70$, $y = 70$, $z = 110$

24. $x = 33$, $y = 33$, $z = 114$

25. $x = 90$, $y = 25$, $z = 50$

26. 4500
    $180(27-2)$

27. 15
    $360/24$

28. Parallel
    $m_1 = 1$
    $m_2 = 1$

29. Neither
    $m_1 = 5$
    $m_2 = 0$

30. Perpendicular
    $m_1 = -\frac{1}{3}$
    $m_2 = 3$
    $-\frac{1}{3} \cdot 3 = \frac{-1}{3} \cdot \frac{3}{1} = -1$

31. $y - 5 = 4(x+3)$
    $y = 4x + 17$
    $m = 4$
    $x_1 = -3$
    $y_1 = 5$
    $y - y_1 = m(x - x_1)$

32. $y+1 = -\frac{1}{3}(x+9)$
    $y = -\frac{1}{3}x - 4$
    $m = -\frac{1}{3}$
    $x_1 = -9$
    $y_1 = -1$
    $y - y_1 = m(x - x_1)$

33. $y-4 = \frac{-2}{3}(x+6)$ or $y+2 = \frac{-2}{3}(x-3)$
    $m = \frac{4-(-2)}{-6-3} = \frac{6}{-9} = \frac{-2}{3}$
    $x_1 = -6$, $y_1 = 4$ or $x_1 = 3$, $y_1 = -2$
    $y = -\frac{2}{3}x$