

1. $x=9, y=13$, Lengths: 20, 20, 11, 11
2. $x=9$
3. 114
4. 115
5. $x=5, Nm=20, OL=20$
6. $m\angle 3=163$
7. $x=29, y=49, z=102$
8. 129
9. $m\angle A=27, m\angle C=153, m\angle D=27$
10. $Am=4$
11. $x=10, y=7$
12. YES
13. NO
14. $x=11, y=5$
15. $m\angle C=139$
16. $x=15, y=75, z=5$
17. $x=4$, Lengths = 15
18. $a=144, b=67$
19. $\angle 1=39, \angle 3=51$
20. $m\angle K=151$
21. $\angle's=90^\circ$

22. Rectangle, Parallelogram

23. $\begin{matrix} F & F \\ T & F \end{matrix}$

24. $x=5, y=146$

25. $m\angle B=125, m\angle A=125$

26. $x=17, y=4$

27. $x=18, y=1$

28. $v=11$

29. skip

30. Trapezoid

31. \overline{DO}

32. Rhombus $\angle's=31$

33. Quad, parallel,
Rhombus