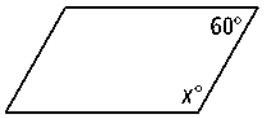
NAME_____ Geometry 6.2-6.5 Study Guide

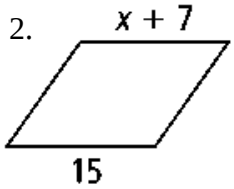
Vocabulary:

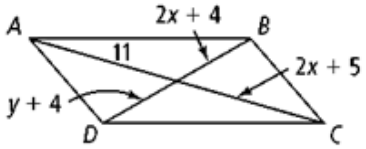
Know the definitions, images, and all properties for each term below.

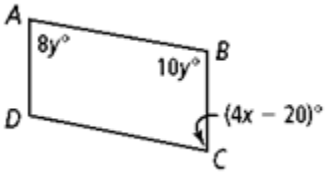
parallelogram, rhombus, rectangle, square

Find the value of the *variable(s)* in each parallelogram.

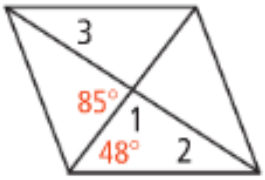
1. 

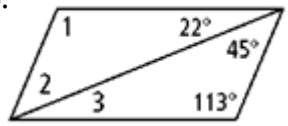
2. 

3. 

4. 

Find the value of the numbered angles for each parallelogram.

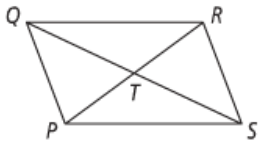
5. 

6. 

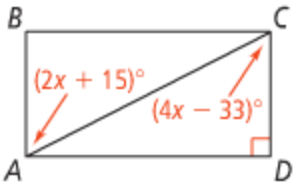
Find the values of *x* and *y* in parallelogram PQRS.

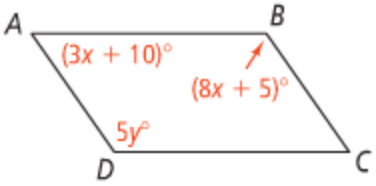
7. PT = 2x, TR = y + 4, QT = x + 2, TS = y

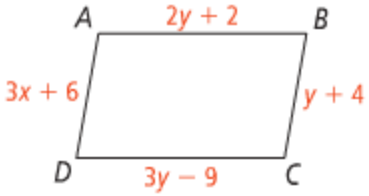
8. QP = 2x+5, RS = x + 9, QR = 4y- 6, PS = y



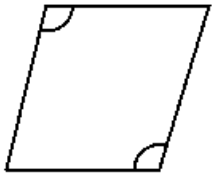
Find the value of the variables that make ABCD a parallelogram.

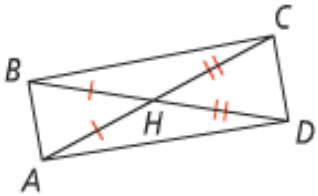
9. 

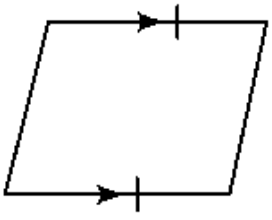
10. 

11. 

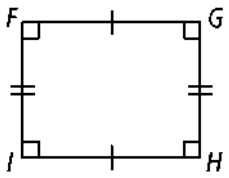
Can you prove the quadrilateral is a parallelogram based on the given information? Justify.

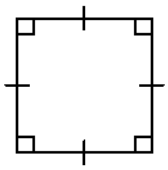
12. 

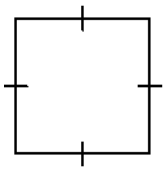
13. 

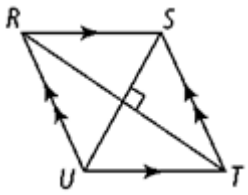
14. 

Use the given information to determine if the parallelogram is a *rhombus, rectangle, square*, or none*.* Justify.

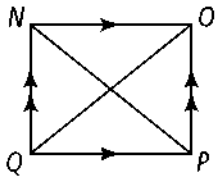
15. 

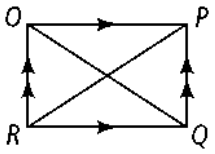
16. 

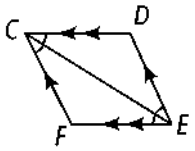
17. 

18. 

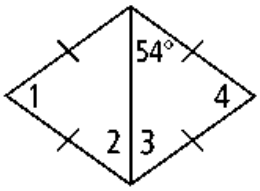
19. $\overline{NP} \cong \overline{OQ}$

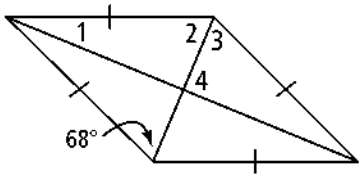


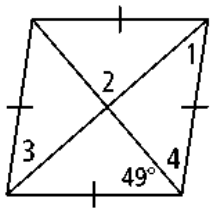
20. 

21. 

Find the value of the numbered angles in each rhombus.

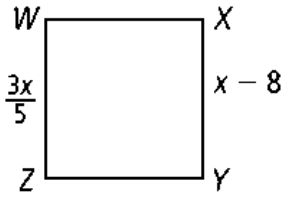
22. 

23. 

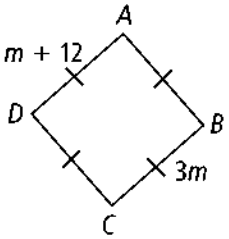
24. 

Find the value of the variables for the given parallelogram.

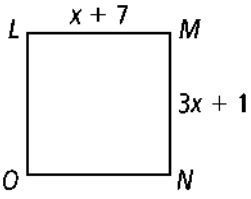
25. Square WXYZ



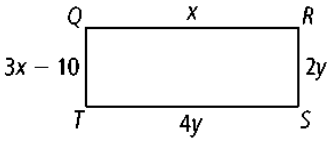
26. Rhombus ABCD



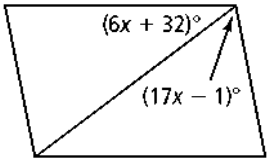
27. Square LMNO



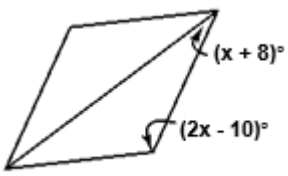
28. Rectangle QRST



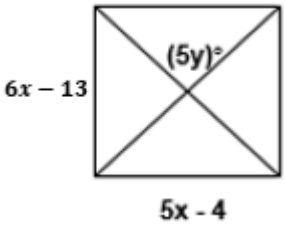
29. Rhombus



30. Rhombus



31. Square



32. Rectangle.