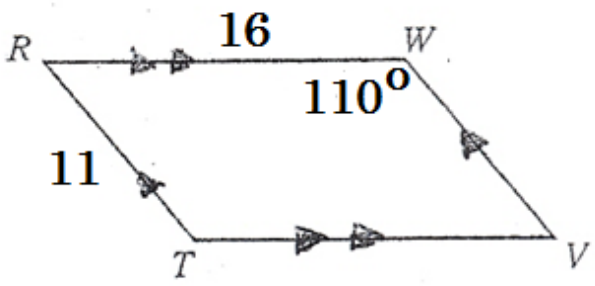
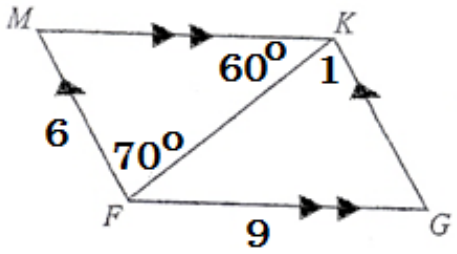
Name_____ Date _____ Period _____

DIRECTIONS: For # 1-11, find the measure of each angle or the length of each segment in the following parallelograms.



1. $m\measuredangle R =$ _____ **2.** $WV =$ _____ **3.** $m\measuredangle V =$ _____

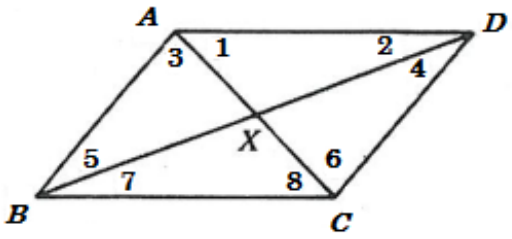
4. $m\measuredangle T =$ _____ **5.** $VT =$ _____



6. $m\measuredangle M =$ _____ **7.** $m\measuredangle 1 =$ _____ **8.** $MK =$ _____

9. $m\measuredangle G =$ _____ **10.** $KG =$ _____ **11.** $m\measuredangle GFM =$ _____

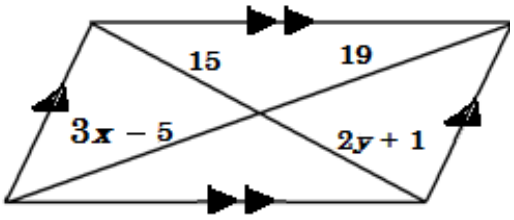
DIRECTIONS: For # 12- 17, accurately complete each statement about parallelogram $ABCD$. Your answers will be other segments, angles, and triangles (not numeric values).

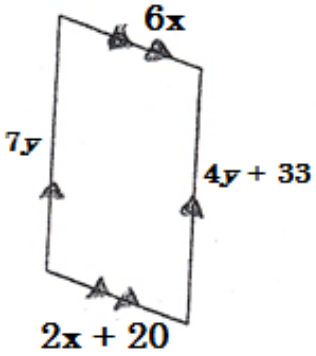


12. $\overline{AD} \cong$ _____ **13.** $\measuredangle DAB \cong$ _____ **14.** $\overline{BX} \cong$ _____

15. $\measuredangle 1 \cong$ _____ **16.** $\measuredangle ABC$ is supplementary to _____ **17.** $\Delta ACB \cong$ _____

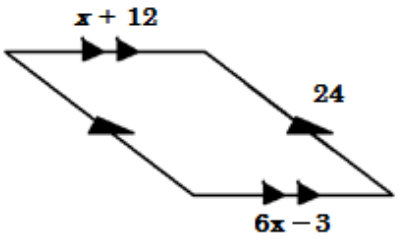
DIRECTIONS: For # 18- 22, use the accompanying diagrams to solve for x and y. SHOW WORK.



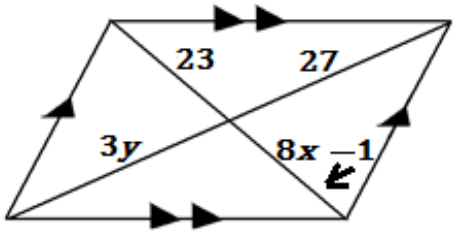


18. $x =$ _____ $y =$ _____

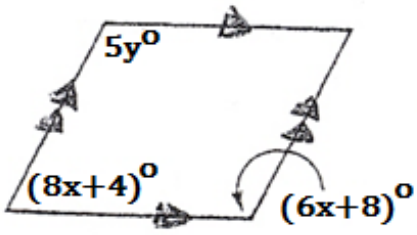
19. $x =$ _____ $y =$ _____



20. x = _____

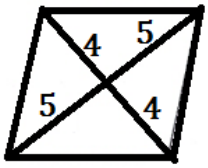


21. x = _____ y = _____

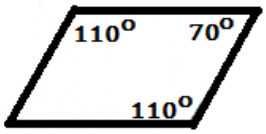


22. x = _____ y = _____

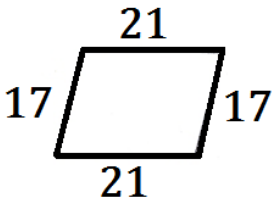
DIRECTIONS: For #23-28, circle exactly one response (YES or NO) to indicate that there is or isn't enough information in the diagrams to conclude that the quadrilaterals are parallelograms.



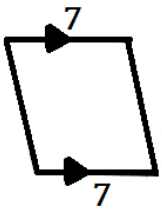
23. YES or NO



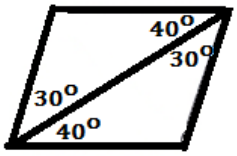
24. YES or NO



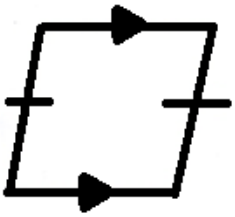
25. YES or NO



26. YES or NO

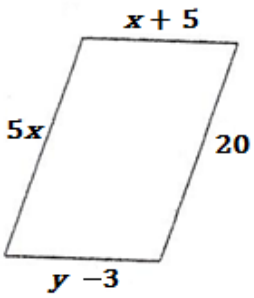


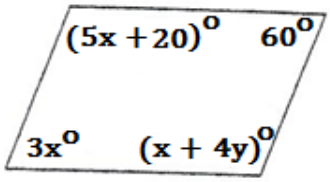
27. YES or NO



28. YES or NO

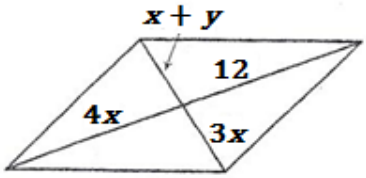
DIRECTIONS: For #29-31, find the values of x and y that will make the polygons be parallelograms. SHOW WORK.





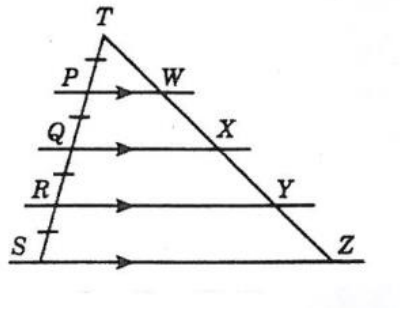
29. $x =$ _____ $y =$ _____

30. $x =$ _____ $y =$ _____



31. $x =$ _____ $y =$ _____

DIRECTIONS: For #32-34, use the following diagram to accurately complete the statements. In this diagram, $= QR = RS$.

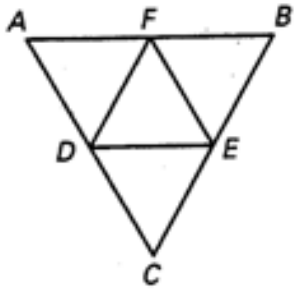


32. If $YZ = 12$, then $XY =$ _____

33. If $WZ = 42$, then $WX =$ _____

34. If $QX = 18$, then $PW =$ _____

DIRECTIONS: For # 35-37, use the following diagram to accurately complete the following statements. The midpoints of the sides of ΔABC are F, E, and D.



35. $\overline{FE}$ || _____

36. If $CB = 50$, then $DF =$ _____

37. If $DE = 19$, then $AB =$ _____