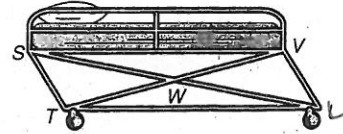


Ch. 6 Post Break Review

(6.2 - 6.5)

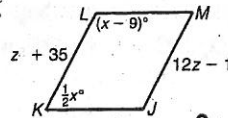
Happy New Year to: _____

A gurney is a wheeled cot or stretcher used in hospitals. Many gurneys are made so that the base will fold up for easy storage in an ambulance. When partially folded, the base forms a parallelogram. In $\square STUV$, $VU = 91$ centimeters, $UW = 108.8$ centimeters, and $m\angle TSV = 57^\circ$. Find each measure.



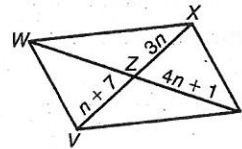
- | | | |
|------------------|------------------|------------------|
| 1. SW | 2. TS | 3. US |
| _____ | _____ | _____ |
| 4. $m\angle SVU$ | 5. $m\angle STU$ | 6. $m\angle TUV$ |
| _____ | _____ | _____ |

$JKLM$ is a parallelogram. Find each measure.



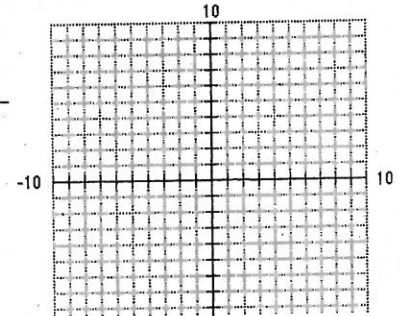
- | | | |
|----------------|----------------|---------|
| 7. $m\angle L$ | 8. $m\angle K$ | 9. MJ |
| _____ | _____ | _____ |

$VWXY$ is a parallelogram. Find each measure.



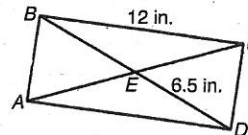
- | | |
|----------|----------|
| 10. VX | 11. XZ |
| _____ | _____ |
| 12. ZW | 13. WY |
| _____ | _____ |

14. Three vertices of $\square ABCD$ are $B(-3, 3)$, $C(2, 7)$, and $D(5, 1)$. Find the coordinates of vertex A .



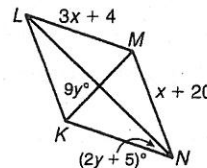
$ABCD$ is a rectangle. Find each length.

- | | |
|----------|----------|
| 15. BD | 16. CD |
| _____ | _____ |
| 17. AC | 18. AE |
| _____ | _____ |

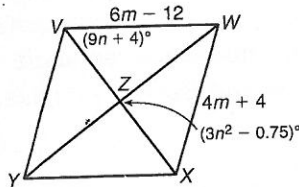


$KLMN$ is a rhombus. Find each measure.

- | | |
|----------|-------------------|
| 19. KL | 20. $m\angle MNK$ |
| _____ | _____ |



$VWXY$ is a rhombus. Find each measure.



21. $XY =$ _____

22. $m\angle YVW =$ _____

23. $m\angle VYX =$ _____

24. $m\angle XYZ =$ _____

25. The vertices of square $JKLM$ are $J(-2, 4)$, $K(-3, -1)$, $L(2, -2)$, and $M(3, 3)$. Find each of the following to show that the diagonals of square $JKLM$ are congruent perpendicular bisectors of each other.

$JL =$ _____

$KM =$ _____

slope of $\overline{JL} =$ _____

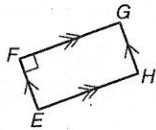
slope of $\overline{KM} =$ _____

midpoint of $\overline{JL} =$ (_____, _____)

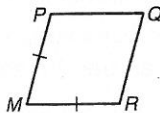
midpoint of $\overline{KM} =$ (_____, _____)

Determine whether the conclusion is valid. If not, tell what additional information is needed to make it valid.

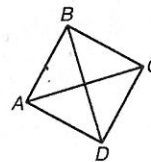
26. $EFGH$ is a rectangle.



27. $MPQR$ is a rhombus.



Use the figure at right to determine whether each conclusion is valid. If not, tell what additional information is needed to make it valid.



28. Given: \overline{AC} and \overline{BD} bisect each other. $\overline{AC} \cong \overline{BD}$
Conclusion: $ABCD$ is a square.

29. Given: $\overline{AC} \perp \overline{BD}$, $\overline{AB} \cong \overline{BC}$
Conclusion: $ABCD$ is a rhombus.

30. Given: $\overline{AB} \cong \overline{DC}$, $\overline{AD} \cong \overline{BC}$, $m\angle ADB = m\angle ABD = 45^\circ$
Conclusion: $ABCD$ is a square.

31. Given: $\overline{AB} \parallel \overline{DC}$, $\overline{AD} \cong \overline{BC}$, $\overline{AC} \cong \overline{BD}$
Conclusion: $ABCD$ is a rectangle.