

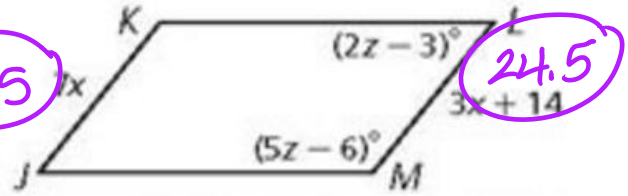
SECTION 6.2-6.3

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JKLM is a parallelogram. Find each measure.

9. JK 24.5 10. LM 24.5
 11. $m\angle L$ 51° 12. $m\angle M$ 129°

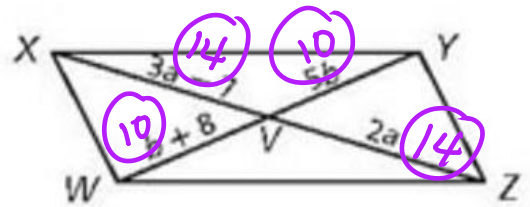


$$\begin{aligned} 7x &= 3x + 14 \\ 4x &= 14 \\ x &= 3.5 \end{aligned}$$

$$\begin{aligned} 2z - 3 + 5z - 6 &= 180 \\ 7z - 9 &= 180 \\ 7z &= 189 \\ z &= 27 \end{aligned}$$

WXYZ is a parallelogram. Find each measure.

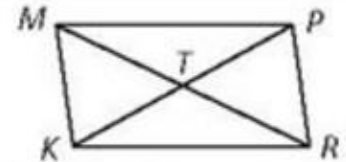
21. WV 10 22. YW 20
 23. XZ 28 24. ZV 14



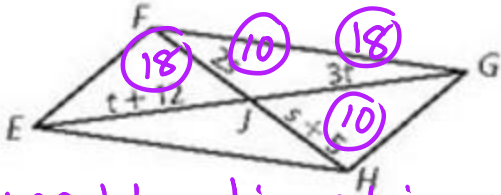
$$\begin{aligned} 3a - 7 &= 2a & 5b &= b + 8 \\ a &= 7 & 4b &= 8 \\ & & b &= 2 \end{aligned}$$

Complete each statement about $\square KMPR$. Justify your answer.

32. $\angle MPR \cong \angle MKR$ 33. $\angle PRK \cong \angle PMK$ 34. $\overline{MT} \cong \overline{TR}$
 35. $\overline{PR} \cong \overline{MK}$ 36. $\overline{MP} \parallel \overline{KR}$ 37. $\overline{MK} \parallel \overline{PR}$
 38. $\angle MPK \cong \angle RKT$ 39. $\angle MTK \cong \angle PTK$ 40. $m\angle MKR + m\angle PRK = 180$

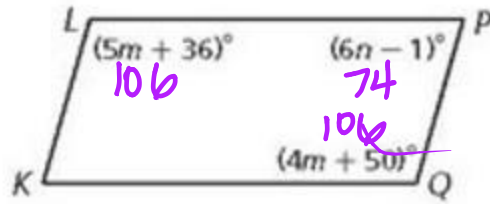


1. Show that $EFGH$ is a parallelogram for $s = 5$ and $t = 6$.



yes, b/c diags bisect

2. Show that $KLPQ$ is a parallelogram for $m = 14$ and $n = 12.5$.

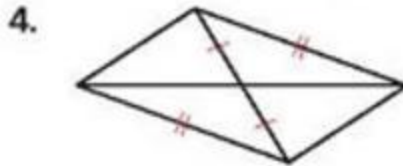


yes b/c opp $\Delta s \cong$

Determine if each quadrilateral must be a parallelogram. Justify your answer.



yes, b/c opp $\Delta s \cong$



NO



yes, b/c one pair of opp sides \parallel and \cong