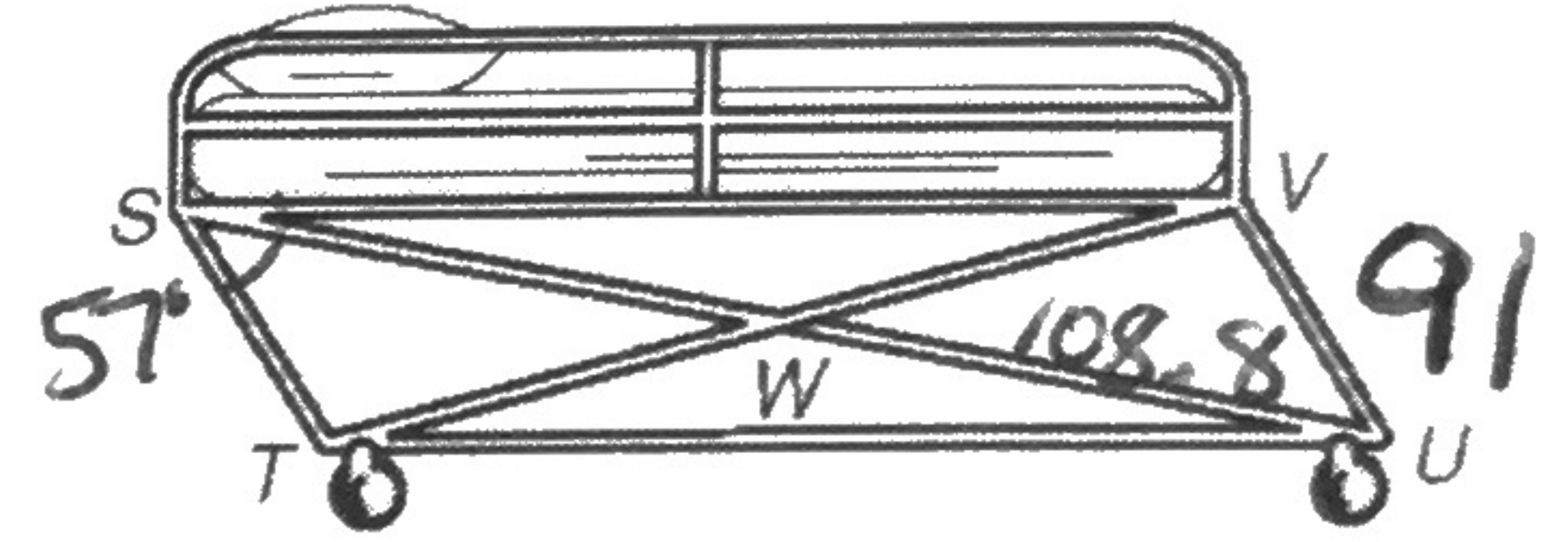


Homework

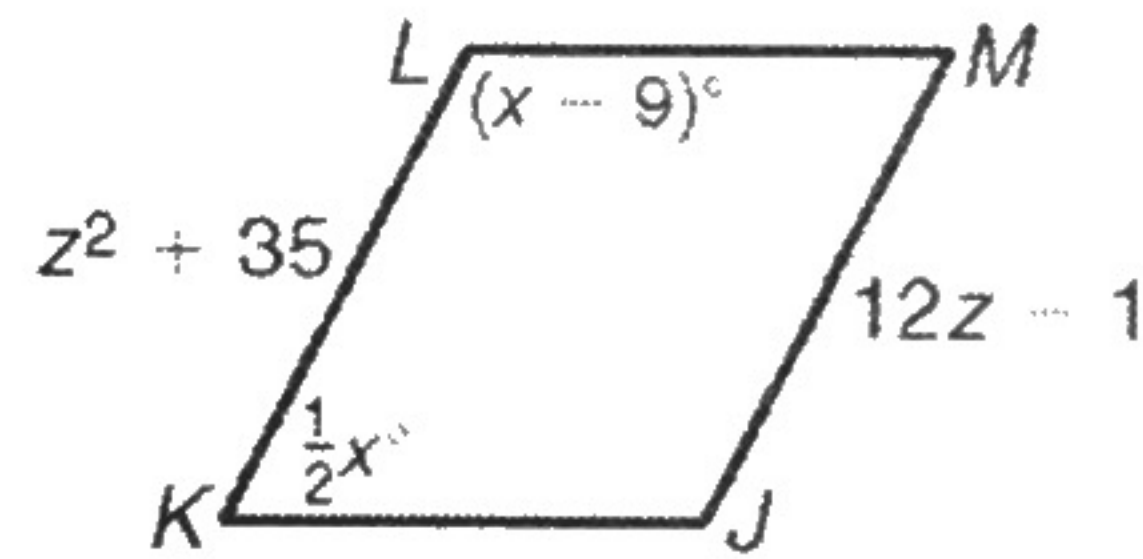
Properties of Parallelograms

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.



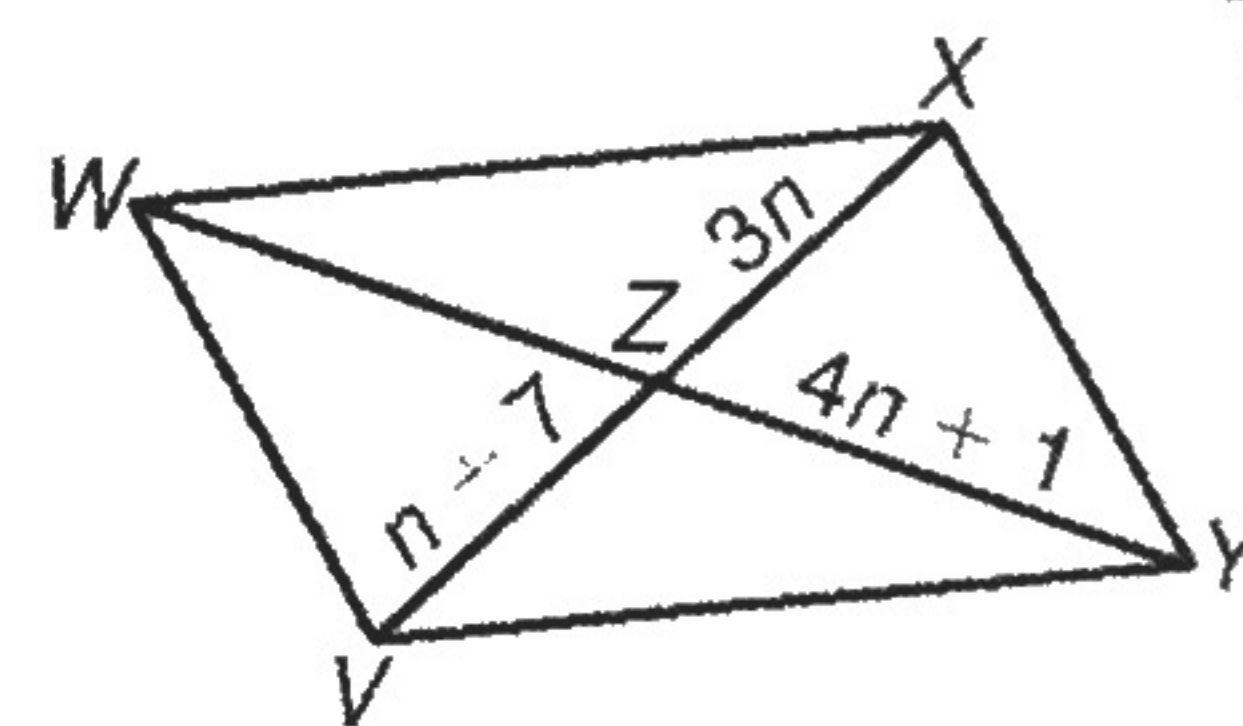
- | | | |
|--|---------------------------------|--------------------------------|
| 1. SW
<u>108.8</u> | 2. TS
<u>91</u> | 3. US
<u>217.6</u> |
| 4. $m\angle SVU$
<u>123 123°</u> | 5. $m\angle STU$
<u>123°</u> | 6. $m\angle TUV$
<u>57°</u> |

$JKLM$ is a parallelogram. Find each measure.



- | | | |
|---|------------------------------|--|
| 7. $m\angle L$
<u>$126 - 9 = 117^\circ$</u> | 8. $m\angle K$
<u>63°</u> | 9. MJ
<u>$6^2 + 35 = 71$</u> |
|---|------------------------------|--|
- $1.5x - 9 = 180$
 $1.5x = 189$
 $x = 126$
- $z^2 + 35 = 12z - 1$
 $z^2 - 12z + 36 = 0$
 $(z - 6)(z - 6) = 0$
 $z = 6$

$WXYZ$ is a parallelogram. Find each measure.



- | | |
|-----------------------|-------------------------|
| 10. VX
<u>21</u> | 11. XZ
<u>10.5</u> |
| 12. ZW
<u>15</u> | 13. WY
<u>30</u> |

$n + 7 = 3n$
 $7 = 2n$
 $3.5 = n$