Name _____ Class _____ Date _____

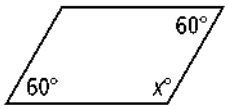
7-2 Practice

Form G

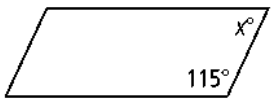
Properties of Parallelograms

Find the value of *x* in each parallelogram.

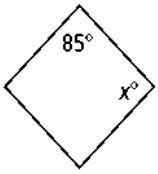
1.



2.



3.



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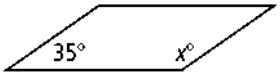

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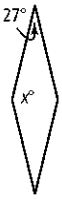
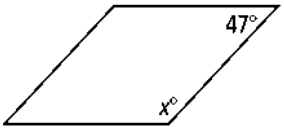
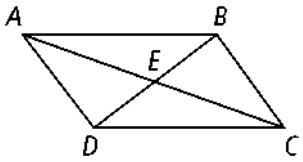


6.



Developing Proof **Complete this two-column proof.**

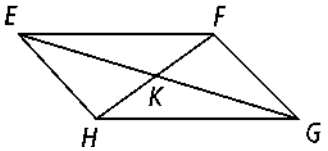


7. Given: $\square EFGH$, with diagonals $\overline{EG}$ and $\overline{HF}$

Prove: $\Delta EFK \cong \Delta GHK$

Statements	Reasons
1) ?	**1)** Given
2) ?	**2)** The diagonals of a parallelogram bisect each other.
3) $\overline{EF} \cong \overline{GH}$	**3)** ?
4) ?	**4)** ?

Algebra **Find the values for *x* and *y* in $\square ABCD$.**



8. $AE = 3x,\ EC = y,\ DE = 4x,\ EB = y + 1$

12. $AE = 4x,\ EC = 5y - 2,\ DE = 2x,\ EB = y + 14$

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7-2 Practice (continued)

Form G

Properties of Parallelograms

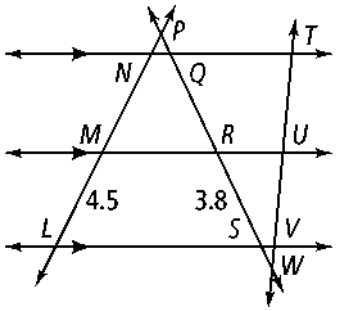
In the figure, *TU* = *UV*. Find each length.

13. *NM*

14. *QR*

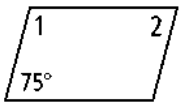
15. *LN*

16. *QS*

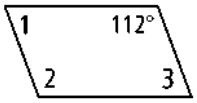


Find the measures of the numbered angles for each parallelogram.

17.



18.



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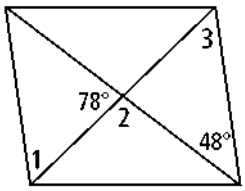

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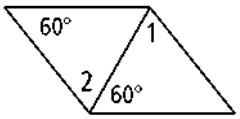

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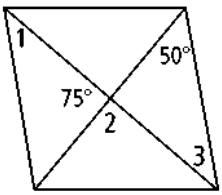

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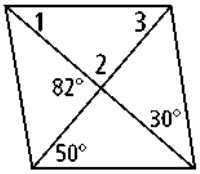

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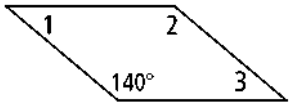

24.