LESSON 6.5

NAME _____ DATE _____

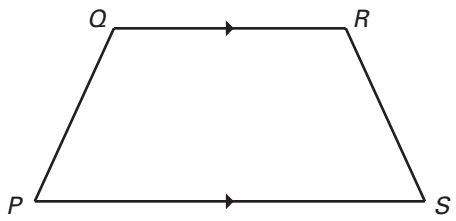
Practice A

For use with pages 356–363

Match the pair of segments or angles with the term that describes them in trapezoid *PQRS*.

1. $\overline{QR}$ and $\overline{PS}$
2. $\overline{PQ}$ and $\overline{RS}$
3. $\overline{QS}$ and $\overline{PR}$
4. $\angle Q$ and $\angle S$
5. $\angle S$ and $\angle P$

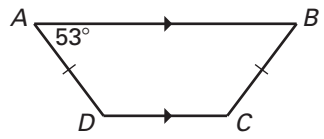
A. bases
B. legs
C. diagonals
D. base angles
E. opposite angles

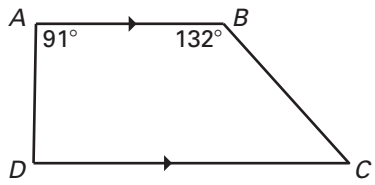


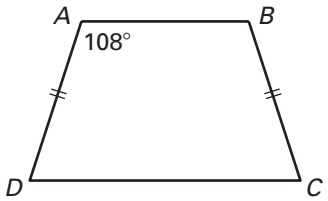
Complete the statement with *always, sometimes* or *never*.

6. A trapezoid is __?__ a parallelogram.
7. The bases of a trapezoid are __?__ parallel.
8. The base angles of an isosceles trapezoid are __?__ congruent.
9. The legs of a trapezoid are __?__ congruent.

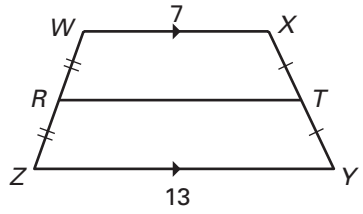
Find the angle measures of *ABCD*.

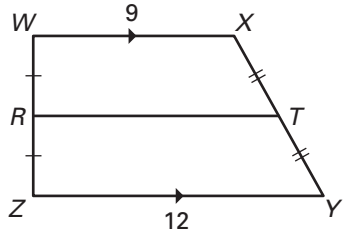
10. 

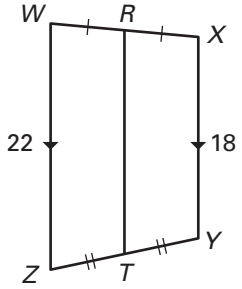
11. 

12. 

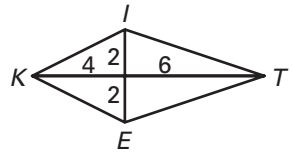
Find the length of the midsegment $\overline{RT}$.

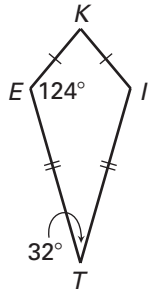
13. 

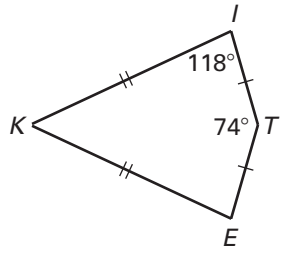
14. 

15. 

Find the length of the sides to the nearest hundredth or the measure of the angles in kite *KITE*.

16. 

17. 

18. 

NAME _____ DATE _____

Practice B

For use with pages 356–363

Draw a trapezoid *JKLM* with $\overline{JK} \parallel \overline{LM}$. Match the pair of segments or angles with the term that describes them in trapezoid *JKLM*.

1. $\overline{JK}$ and $\overline{ML}$ **2.** $\overline{MJ}$ and $\overline{KL}$ **3.** $\overline{ML}$ and $\overline{KL}$

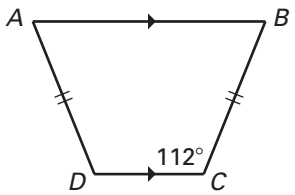
4. $\angle K$ and $\angle M$ **5.** $\overline{JL}$ and $\overline{KM}$ **6.** $\angle M$ and $\angle L$

A. bases angles **B.** consecutive sides **C.** opposite angles

D. diagonals **E.** bases **F.** legs

Find the angle measures of *ABCD*.

7.



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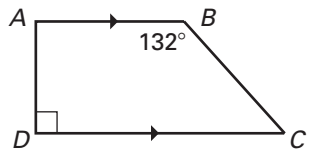

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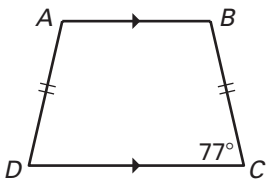
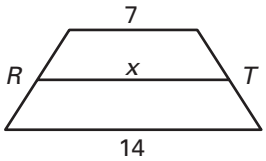


The midsegment of the trapezoid is $\overline{RT}$. Find the value of *x*.

10.



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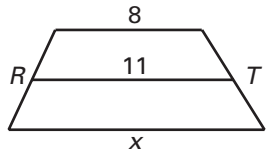

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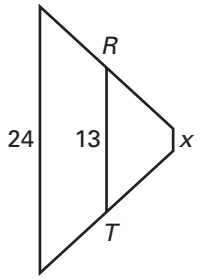
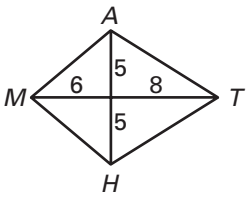


Find the length of the sides to the nearest hundredth or the measure of the angles in kite *MATH*.

13.



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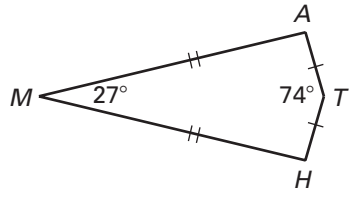

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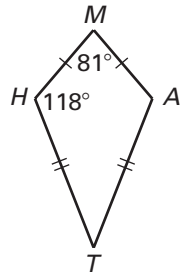
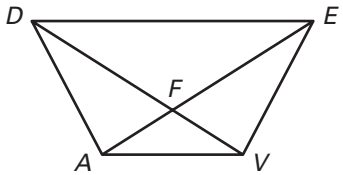


Write a two-column or a paragraph proof.

16. Given: $\overline{DE} \parallel \overline{AV}$,
$\triangle DAV \cong \triangle EVA$

Prove: *DAVE* is an isosceles trapezoid.



17 Given: $\overline{WV}$ is a midsegment of $\triangle XYZ$.
$\overline{XZ} \cong \overline{YZ}$

Prove: *XWVY* is an isosceles trapezoid.