


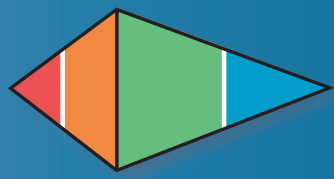
6-6 Solve It!



SOLVE IT!

Getting Ready!

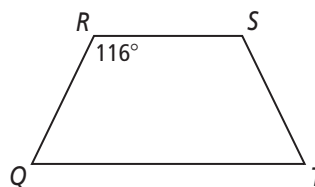
Two isosceles triangles form the figure at the right. Each white segment is a midsegment of a triangle. What can you determine about the angles in the orange region? In the green region? Explain.



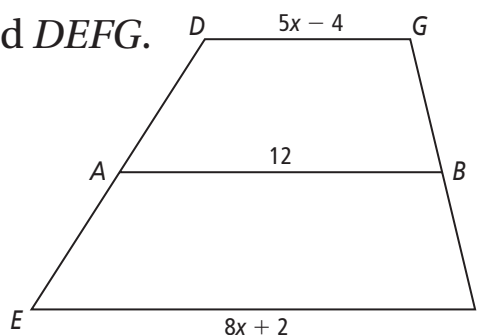
Make a sketch and number the angles.

6-6 Lesson Quiz

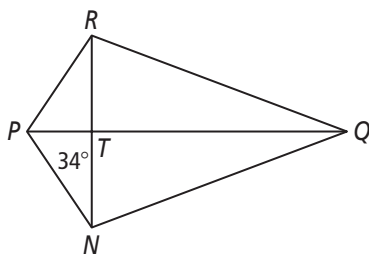
1. $QRST$ is an isosceles trapezoid and $m\angle R = 116$. What are $m\angle Q$, $m\angle T$, and $m\angle S$?



2. \overline{AB} is the midsegment of trapezoid $DEFG$. What is x ?



3. Do you UNDERSTAND? In kite $NPRQ$, what is $m\angle RPT$?



Answers

Solve It!

In each region, \triangle are either suppl. or \cong ; the midsegment of each isosc. \triangle is \parallel to its base, so same-side int. \triangle in each region

are suppl. Since the \triangle sharing the base of each isosc. \triangle are \cong , the \triangle sharing the midsegment of each \triangle are also \cong .

Lesson Quiz

1. $m\angle S = 116$, $m\angle Q = 64$, $m\angle T = 64$
2. 2
3. 56