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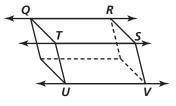
Practice 3-2

Proving Lines Parallel

1. Developing Proof Complete the paragraph proof for the figure shown.

Given: $\angle RQT$ and $\angle QTS$ are supplementary. $\angle TSV$ and $\angle SVU$ are supplementary. Prove: $\overrightarrow{QR} \parallel \overleftarrow{UV}$

Proof Because $\angle RQT$ and $\angle QTS$ are supplementary, $\angle RQT$ and $\angle QTS$ are **a**. ? angles. By the Same-Side Interior Angles Theorem, **b**. ? || **c**. ?. Because $\angle TSV$ and $\angle SVU$ are supplementary, $\angle TSV$ and $\angle SVU$ are **d**. ? angles. By the **e**. ? Theorem, $\overrightarrow{TS} \parallel \overrightarrow{UV}$. Because \overrightarrow{QR} and \overrightarrow{UV} both are parallel to **f**. ?, $\overrightarrow{QR} \parallel \overrightarrow{UV}$ by Theorem **g**. ?.



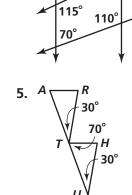
Which lines or segments are parallel? Justify your answer with a theorem or postulate.

G

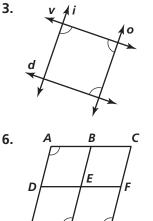
9.



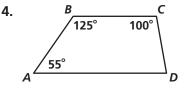
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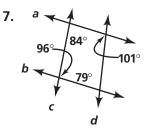


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Algebra Find the value of x for which $a \parallel t$.

 $(x + 44)^{\circ}$

8.

