Practice

Proving Lines Parallel

Given the following information, determine which lines, if any, are parallel. State the postulate or theorem that justifies your answer.

1. $m \angle BCG + m \angle FGC = 180$ **2.** $\angle CBF \cong \angle GFH$

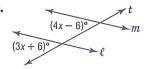
Cons. int L's CORR. L'S

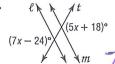
BD ILEG

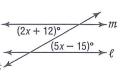
3. $\angle EFB \cong \angle FBC$ 4. $\angle ACD \cong \angle KBF$

Alt. Int. L'S (AEA) Alt. Ext L'S (AEA)

Find x so that $\ell \parallel m$.



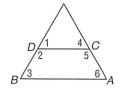




8. PROOF Write a two-column proof.

Given: $\angle 2$ and $\angle 3$ are supplementary.

Prove: $\overline{AB} \parallel \overline{CD}$



Statements Reasons

1. L2 and L3
 are supplementary Z. If consecutive

2. AB II CD Interior Lis are supplementary than lines are II.

3. AB II CD 3. Segments contained in II lines are II.

9. LANDSCAPING The head gardener at a botanical garden wants to plant rosebushes in parallel rows on either side of an existing footpath. How can the gardener ensure that the rows are parallel?



90° angle 5