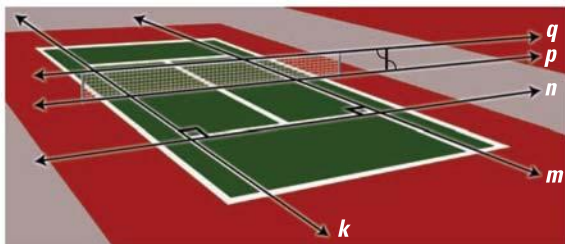


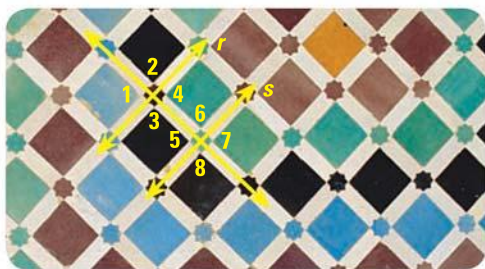


Lessons 3.1–3.3

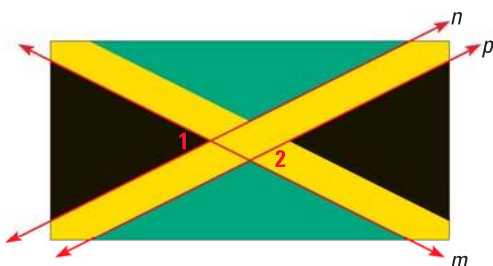
1. **MULTI-STEP PROBLEM** Use the diagram of the tennis court below.



- Identify two pairs of parallel lines so each pair is on a different plane.
 - Identify a pair of skew lines.
 - Identify two pairs of perpendicular lines.
2. **MULTI-STEP PROBLEM** Use the picture of the tile floor below.



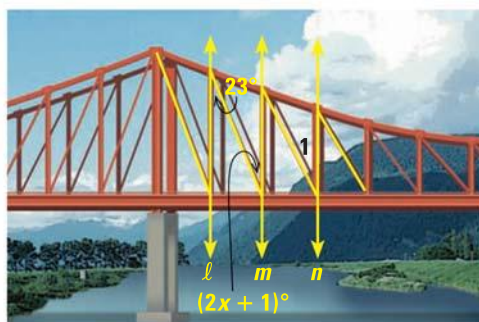
- Name the kind of angle pair each angle forms with $\angle 1$.
 - Lines r and s are parallel. Name the angles that are congruent to $\angle 3$.
3. **OPEN-ENDED** The flag of Jamaica is shown. Given that $n \parallel p$ and $m \angle 1 = 53^\circ$, determine the measure of $\angle 2$. *Justify* each step in your argument, labeling any angles needed for your justification.



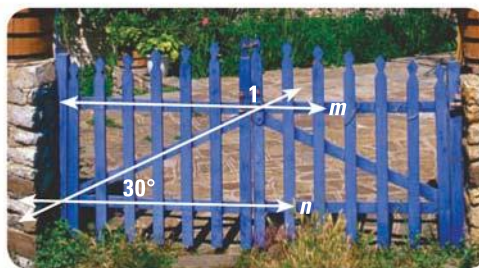
4. **SHORT RESPONSE** A neon sign is shown below. Are the top and the bottom of the Z parallel? *Explain* how you know.



5. **EXTENDED RESPONSE** Use the diagram of the bridge below.



- Find the value of x that makes lines l and m parallel.
 - Suppose that $l \parallel m$ and $l \parallel n$. Find $m \angle 1$. *Explain* how you found your answer. Copy the diagram and label any angles you need for your explanation.
6. **GRIDDED ANSWER** In the photo of the picket fence, $m \parallel n$. What is $m \angle 1$ in degrees?



7. **SHORT RESPONSE** Find the values of x and y . *Explain* your steps.

