1. Rotate  90 degrees around the point A to create . What statements can you make about the relationships between the sides of  and ? How are  and  related?
2. Rotate line *n* 90 degrees around point D. Explain how you know you have rotated it 90 degrees without measuring the degree of the rotation and without using the fact that the slopes are opposite reciprocals?
3. Make a conjecture about the relationship between the slope of a line and the slope of its image created by rotating the line 90 degrees and justify the conjecture.

