

Activity 1 Directions [MGSE9-12G.GPE5](#)

1. Focus on Line 1 and Line 2. Use Geogebra to measure the distance between A and C and between B and D. What do you notice? Are Line 1 and Line 2 parallel, perpendicular, or oblique?

2. Focus on Line 2 and Line 3. Use Geogebra to measure the distance between C and E and between D and F. What do you notice? Are Line 2 and Line 3 parallel, perpendicular, or oblique?

3. Focus on Line 1 and Line 3. Use Geogebra to measure the distance between A and E and the between B and F. What do you notice? Are Line 1 and Line 3 parallel, perpendicular, or oblique?

4. Now use the slope setting to find the slopes of all 3 lines. What do you notice?

5. Based on your answers to these questions, write a rule about the slopes of lines that are parallel.