

SLOPES OF PARALLEL AND PERPENDICULAR LINES

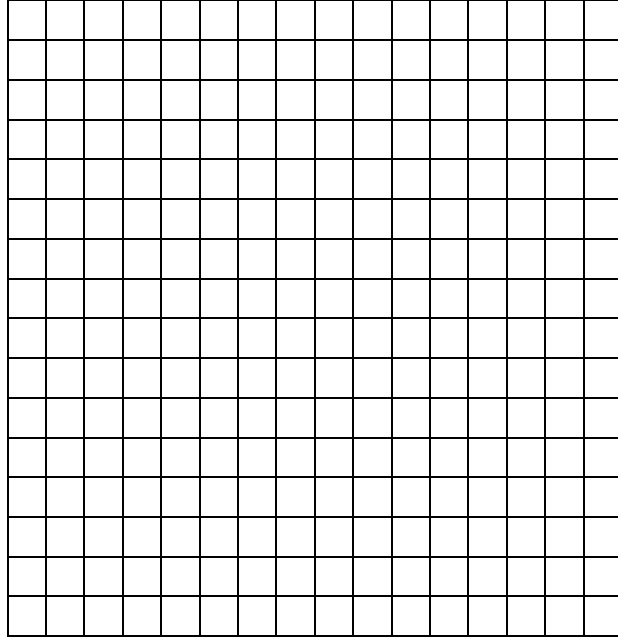
Plot and label the following points on the grid. Connect the points with line segments from A to B, B to C, C to D, and D to A. Draw your axes on the grid so all of the points fit on the grid.

$$A = (-5, 1) \quad B = (1, 5)$$

$$C = (5, -1) \quad D = (-4, -7)$$

Find the slope of side AB.

Find the slope of side CD.



Are sides AB and CD parallel, perpendicular, or neither?

Find the slope of side BC.

Are sides AB and BC parallel, perpendicular, or neither?

Write a conclusion about the slopes of parallel lines.

Write a conclusion about the product of the slopes of perpendicular lines.