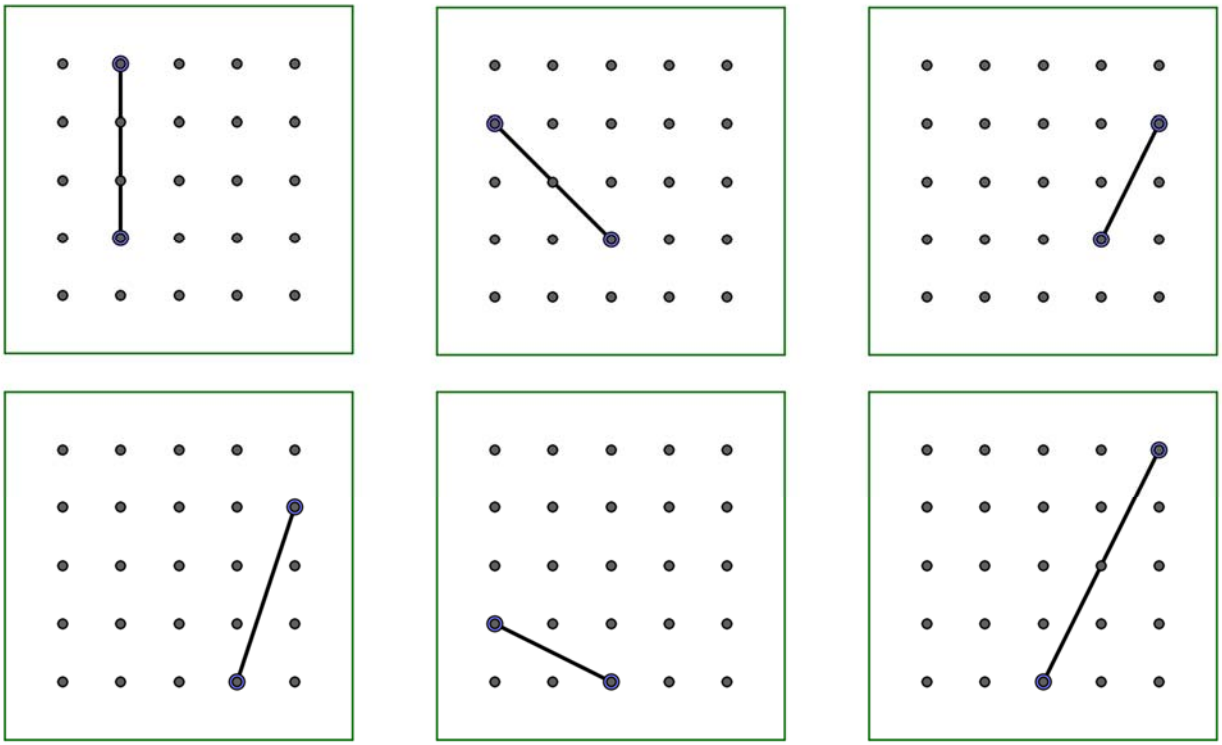
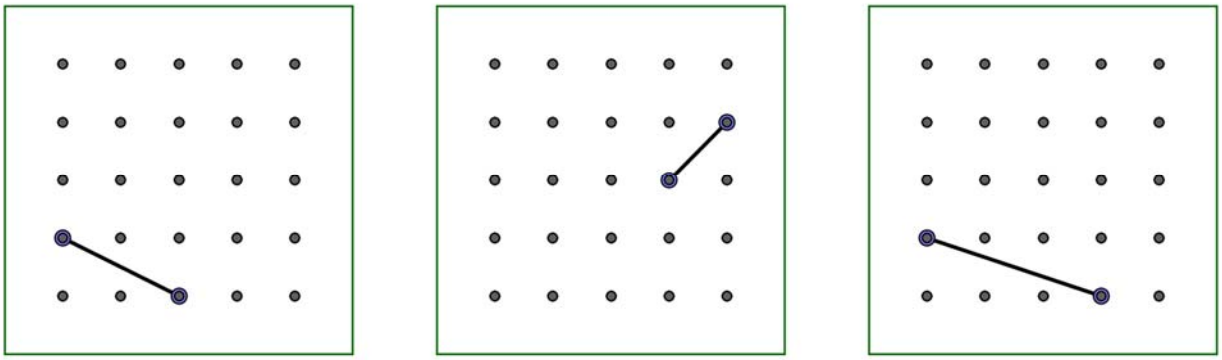
Geoboard right angles name:_____

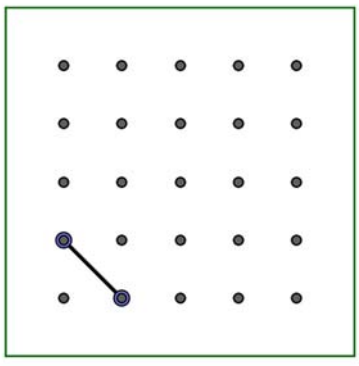
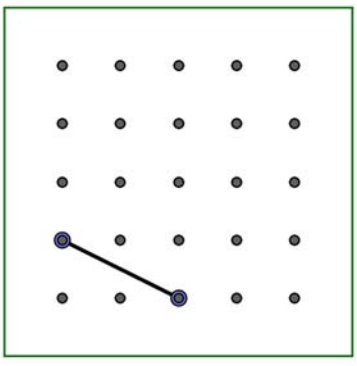
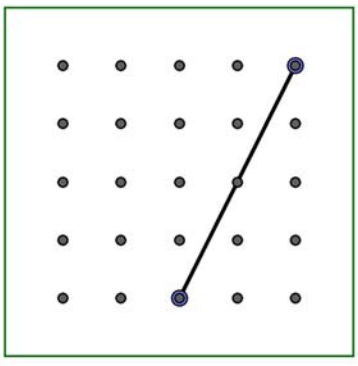
For each of these line segments, draw a perpendicular segment (they should all be geoboard segments—starting and ending at a dot on the grid). Do your best visual estimate, and then check your answers using the Geogebra tools.

1.

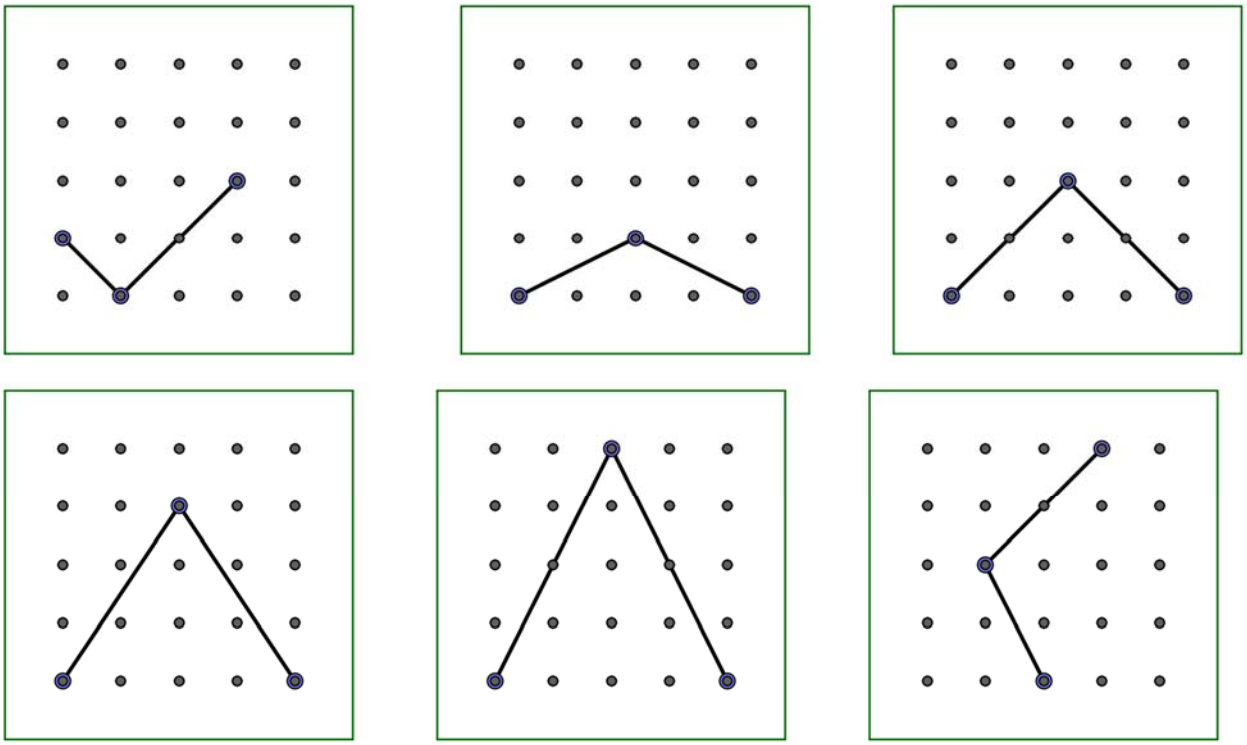


2. Draw in a square that has the segment shown as one of its sides.

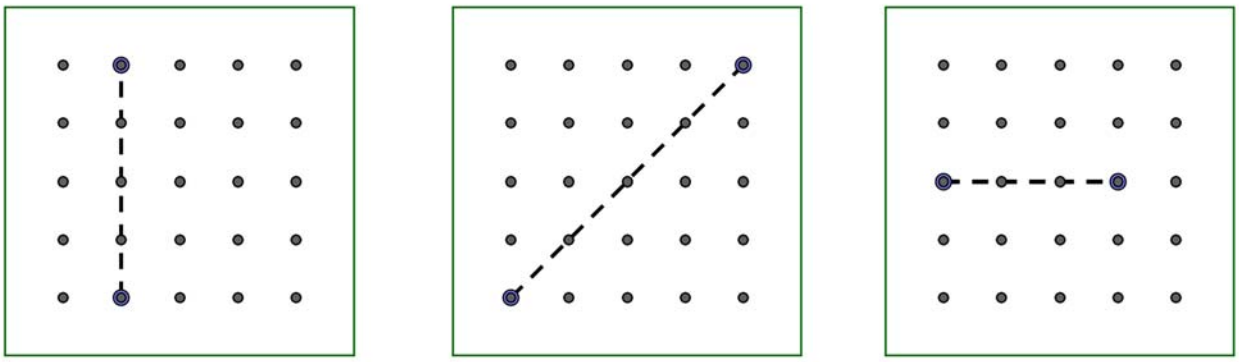


3. a. Draw a rectangle that is not a square that has the segment shown as one of its sides	b. Draw a line parallel to the line shown	c. Draw a line parallel to the line shown
		

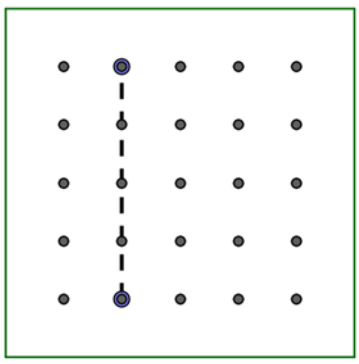
4. Decide if each of these angles is right, acute or obtuse.



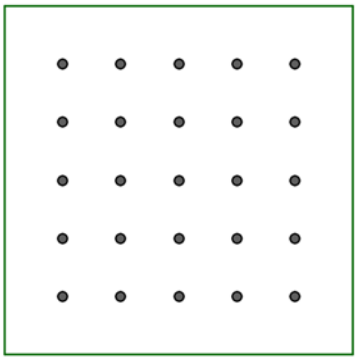
5. One of a kite's diagonals is a line of symmetry for the kite. Draw a kite that has each of these lines of symmetry:



6. a. Draw a rhombus with this line as one of the lines of symmetry:



b. Draw a hexagon that has a line of symmetry



c. Draw a trapezoid where this line is one of the parallel sides