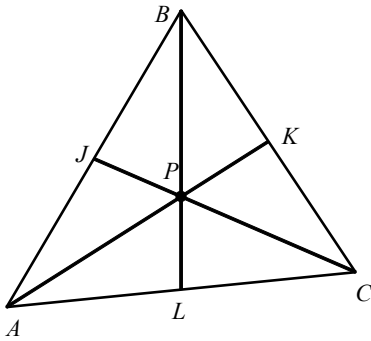


Name _____ Period _____

Part E: Take Home Question (5 points each or 25 points)

1. The line through $A(3, 2)$ and $B(5, y)$ is perpendicular to a line with slope 2. Find y .
2. The following are slopes of perpendicular lines. Find the value of w .
 $\frac{w}{3}, 7$

3. Which are possible values for PJ and PC if point P is the centroid of the triangle?



- [A] 10 m; 19 m [B] 10 m; 18 m [C] 9 m; 18 m [D] 9 m; 19 m

4. Julian wishes to center a butcher-block table in a kitchen's work triangle, that is, at a location equidistant from the refrigerator, stove, and sink. Which point of concurrency does Julian need to locate?
5. Find two points on a line parallel to the line $6x - y = 5$