

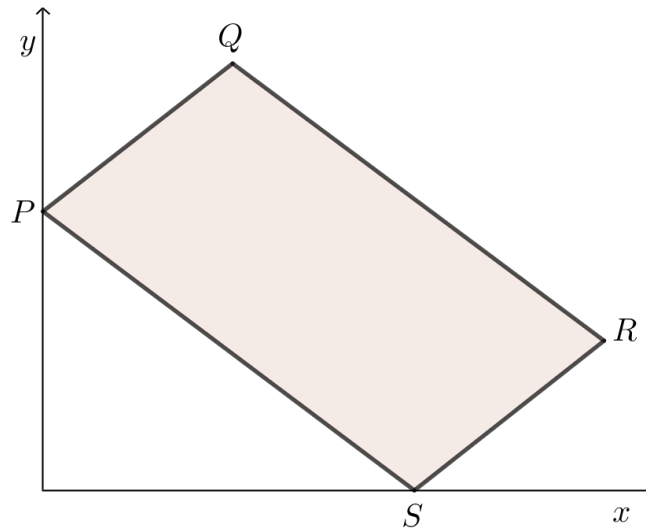


Problem of the Week

Problem E

Parallelogram Askew

Parallelogram $PQRS$ is positioned such that P lies on the positive y -axis, S lies on the positive x -axis, and Q and R lie in the first quadrant.



If vertices P , Q , and S are located at $(0, 30)$, $(k, 50)$ and $(40, 0)$, respectively, and the area of $PQRS$ is 1340 units^2 , determine the coordinates of Q and R .

