## Final Project Report

Geometric Computing

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$$||(k-1,k-1)||_2^2 \le 1$$
$$(k-1)^2 + (k-1)^2 \le 1$$
$$2(k^2 - 2k + 1) \le 1$$
$$\frac{1}{2}(2(k^2 - 2k + 1)) \le \frac{1}{2}$$
$$k^2 - 2k + 1 \le 0$$

The only integral solution is 1.

Solution: k = 1