



Problem of the Week

Problem E

An Uphill Struggle

The following information is known about $\triangle OBC$:

- O is at the origin, and points B and C lie in the first quadrant;
- $\triangle OBC$ is an isosceles right triangle with $OB = BC$ and $\angle OBC = 90^\circ$; and
- the hypotenuse OC is on a line segment with slope 3.

Determine the slope of line segment OB .

