



## Problem of the Week

### Problem E

#### Tilted Triangle

Suppose that  $\triangle OAB$  is such that vertex  $O$  is located at the origin, and vertices  $A$  and  $B$  lie on the line  $2x + 3y - 13 = 0$  with  $\angle AOB = 90^\circ$  and  $OA = OB$ .

Determine the area of  $\triangle OAB$ .

