



## Problem of the Week

### Problem E

#### Analytic Geometry Tools Required

$OAB$  is an isosceles right triangle with vertex  $O$  at the origin  $(0, 0)$ , vertices  $A$  and  $B$  on the line  $2x + 3y - 13 = 0$ , and  $\angle AOB = 90^\circ$ .

Determine the area of  $\triangle OAB$ .

