



## Problem of the Week

### Problem D

#### A Point of Division

The line  $y = -\frac{3}{4}x + 9$  crosses the  $x$ -axis at  $P$  and the  $y$ -axis at  $Q$ .

Point  $T(r, s)$  lies on the line segment  $PQ$  such that the area of  $\triangle POQ$  is three times the area of  $\triangle TOP$ .

Determine the values of  $r$  and  $s$ , the coordinates of  $T$ .

