



Problem of the Week

Problem E

Another Point of Division

A square has coordinates $A(0, 0)$, $B(-9, 12)$, $C(3, 21)$ and $D(12, 9)$.

The line l passes through A and intersects CD at point $T(r, s)$ splitting the square so that the area of square $ABCD$ is three times the area of $\triangle ATD$.

Determine the equation of line l .

