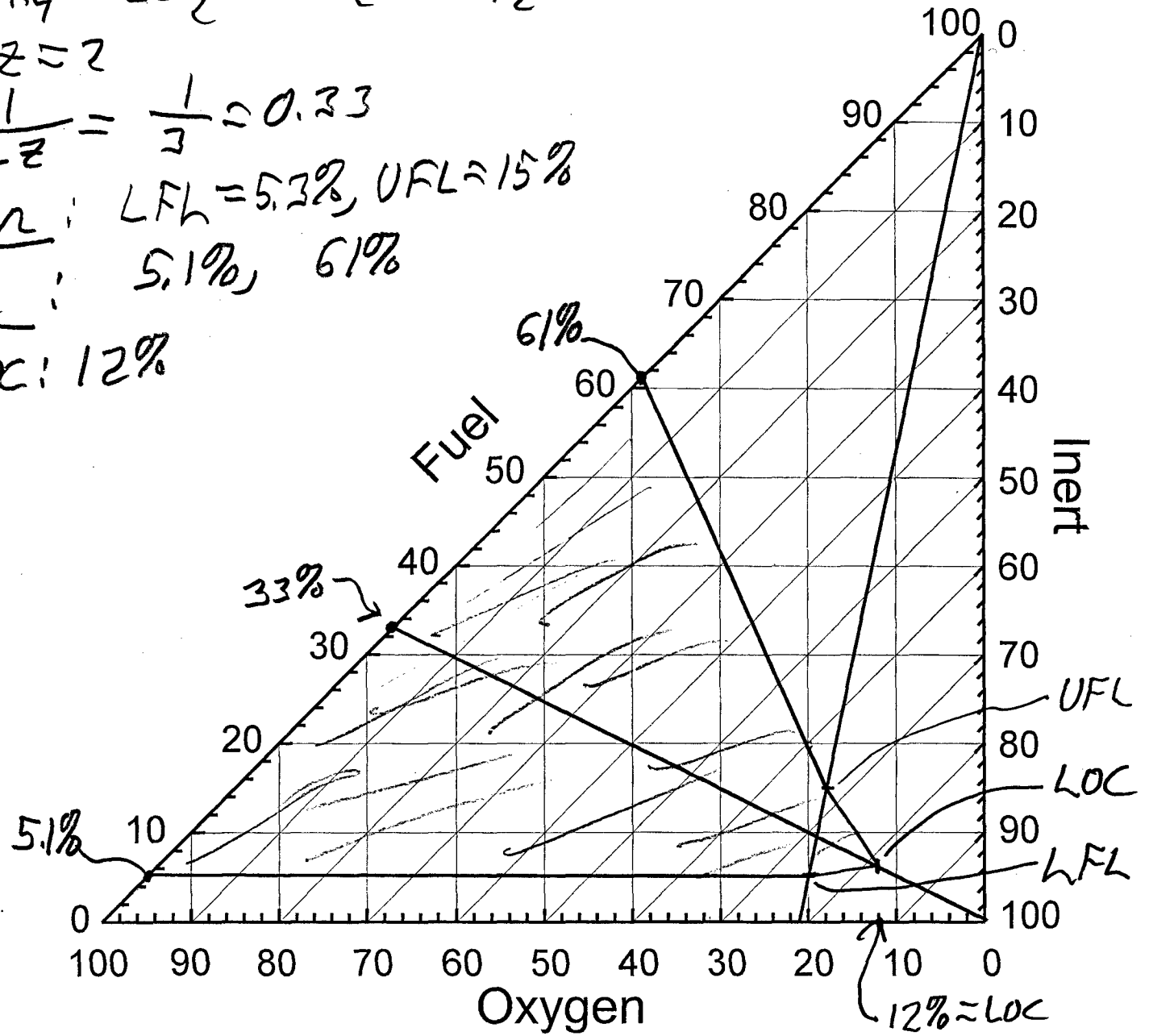
$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$

$z = 2$

$\frac{1}{1+z} = \frac{1}{3} \simeq 0.33$

<u>air</u>: LFL = 5.3%, UFL ≈ 15%

<u>O_2</u>: 5.1%, 61%

LOC: 12%