

Dr., Sasha

OK.

If this task is complex, you miss the problem and go on solving the next task6.

However, I have couple of questions you can possibly answer about the task 0) from the collection of task5.

From experimental data, we can see in pictures below that the drag force

$F_{drag}(v) = F_x(v) = F_D$  and the lift force  $F_{lift}(v) = F_y = F_L$  have different asymptotic behavior as velocity goes to infinity. Can you give me an explanation why the drag force decrease as velocity increases? Do you think that  $F_D \propto \frac{C}{|v|^n}$  or  $F_D \propto e^{-C|v|^m}$

