[nex10] **Random inkjet printer.**

N black circles, all with area $A_D = \pi r^2$, are printed randomly on a sheet of paper with area A_S. Under the assumption that N and A_S are sufficiently large, so that edge effects can be neglected, calculate the average blackened area $\langle A_B \rangle$ on the sheet as a function of N and A_D. Show that for $NA_D \ll A_S$ overlaps of inkdots become negligible by expanding the expression previously obtained. Show that $\langle A_B \rangle$ remains smaller than A_S, no matter how large N is chosen.