It was guessed that the General restricted horse numbers (strong ordering on variables x1,x2,x3...xk) is the form B'(k) = s(k,k)H(n) + s(k,k-1)H(n-1) + s(k,k-1)H(n-2)...s(k,1)H(n-k+1) where s(a,b) are the signed Stirling numbers.

This may be proven by assuming the following:

The translation operator exp(d/dn), exp(d/dn)H(n) = H(n + 1)

Then build the problem as a counting problem, first remove the k variables that are strongly ordered

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e^{(-(k-1)d/dn)}H(n)
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Then add them back one at a time, which is just increasing the number of variables, but also, need to subtract out any choice where the added variable is equal to one of the k variables, which if m variables are already added back, is just an additive constant -m multiplied on the possible number of configurations without that variable,