1. Plot the given points and use calculus (partial derivatives) to find the corresponding least-squares line.
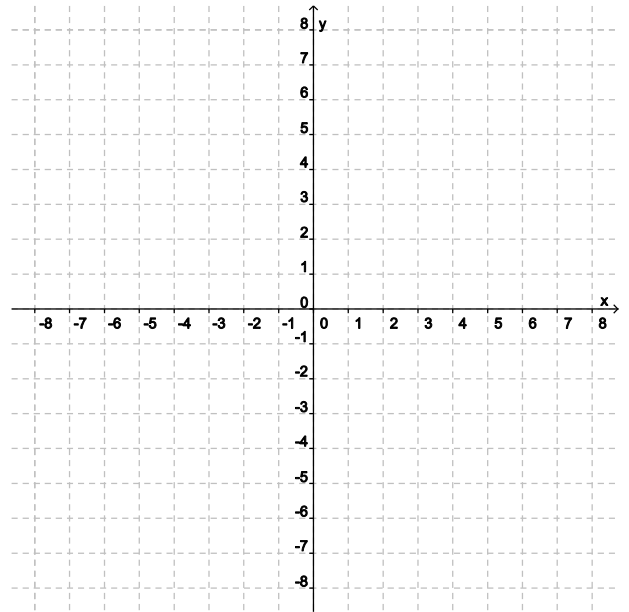$(1,1), (2,2), (6,0)$

Q: If you have 10 black socks and 10 green socks in a drawer (all mixed up), how many socks do you need to take out to be sure that you have a pair of the same color?