

Math 170E
Homework for Section 5.3*
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- Section 5.3: Question 1, 3, 5, 7, 18 (20 in 9th ed.).

Question 5.3-15 (9th ed.): Three drugs are being tested for use as the treatment of a certain disease. Let p_1 , p_2 , and p_3 represent the probabilities of success for the respective drugs. As three patients come in, each is given one of the drugs in a random order. After $n = 10$ “triples” and assuming independence, compute the probability that the maximum number of successes with one of the drugs exceeds eight if, in fact, $p_1 = p_2 = p_3 = 0.7$.

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