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GRAPHS OF PARTIAL SUMS OF THE BINOMIAL DISTRIBUTION
Herman Kahn and Irwin Mann

RM-1880

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Graphs of Partial Sums of the Binomial Distribution

The following graphs were used in calculations for "Techniques of Systems Analysis," RM-1829. We have had a number of requests for their use for general purposes and so are making them available here.

The values used are simply taken from the tabulations of:¹

\[ R = \sum_{i=r}^{n} \binom{n}{i} p^i (1 - p)^{n-i} \]

If

- \( n \) = total number of trials
- \( p \) = probability of success of any trial
- \( R \) = probability of at least \( r \) successes,

the graph can be used to:

1) read off the probability of any particular number of successes, and/or

2) Monte Carlo the probability of \( r \) successes in \( n \) trials.
