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Task Description (SCARP)
Special Committee advising on Mathematical Problems

It is desired that ORR have set up a facility for conducting a summer seminar under the direction of a competent mathematician.

Among the areas to be explored are:

1) Matrix algebra, with emphasis on computational methods of solving matrix equations of the type X^{-1} RX = B, or sets of equations of the type X^{-1} RSX = A, where the constants A, are fragmentary.

Also X-1 R* Y-1R-s-t YR-\$X = Be.t.

- Group theory, with emphasis on characters of finite substitution groups.
- 3) Combinatorial Topology, stressing the computation of properties in the large from definitions describing graphs in the small.
- A) Logical reduction of hypotheses. Given a large number of statements with rules determining if a pair are consistent or inconsistent, to find the largest subset of pairwise consistent statements.