

Equation (12) of Waring's formula, published in 1762, which can be extended to include the sum of  $k$ th powers of the roots of  $n$ th degree polynomials.

The main point to observe is not necessarily the meager result given by (13) but the fact that implicit in the development of Waring's formula lies the generating function (4) for the Lucas numbers.

#### REFERENCES

1. J. V. Uspensky, Theory of Equations, McGraw-Hill, 1948.
2. L. E. Dickson, First Course in the Theory of Equations, John Wiley, 1922.

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#### OMISSIONS

H-3 and H-8 were also solved by John L. Brown, Jr., The Pennsylvania State University, State College, Penn.

The solution to H-16 given in the last issue was compounded from solutions given by L. Carlitz and John L. Brown, Jr. The varitypist omitted the credit line.

H-13 was also solved by John H. Halton, University of Colorado at Boulder, Colorado.

H-15 was also solved by L. Carlitz, Duke University, Durham, N. C.