**275.** A dental benefit is designed so that a deductible of 100 is applied to annual dental charges. The reimbursement to the insured is 80% of the remaining dental charges subject to an annual maximum reimbursement of 1000. You are given: (i) The annual dental charges for each insured are exponentially distributed with mean 1000.

(ii) Use the following uniform (0, 1) random numbers and the inversion method to generate four values of annual dental charges: 0.30 0.70 0.08 0.92

Calculate the average annual reimbursement for this simulation.

(A) 522 (B) 696

(C) 757

947

(D)

(E) 1042