

277. You are given:

- (i) Loss payments for a group health policy follow an exponential distribution with unknown mean.
- (ii) A sample of losses is:

100 200 400 800 1400 3100

Use the delta method to approximate the variance of the maximum likelihood estimator of $S(1500)$.

- (A) 0.019
- (B) 0.025
- (C) 0.032
- (D) 0.039
- (E) 0.045