

UNIVERSITY OF VICTORIA
STAT 350, Summer 2023 Quiz 2
Section A01, CRN 30851

Instructor: Chi Kou

Total points: 13

Duration: 30 minutes

Instructions:

- (i) Write your NAME and STUDENT NUMBER WITHOUT "V" on this page.
- (ii) All questions are **full answer questions**. Show ALL your work (unless specified otherwise) to receive full marks as a numerical answer alone is insufficient. Marks will be deducted for incomplete or poorly presented answers.
- (iii) A Sharp calculator with a model number starting with "EL-510R" is the **only** one that is permitted in this course. You will receive a **ZERO** on this test if using a different calculator.
- (iv) For numerical questions, you may give the exact answer or round your answers to at least **3** decimal places if necessary.
- (v) The number in the brackets indicate the number of points for each question.

$$0.5 \rightarrow \frac{1}{2} \rightarrow \frac{1}{5} \rightarrow \frac{1}{10} \rightarrow \frac{1}{20} \rightarrow \frac{1}{40} \rightarrow \frac{1}{80} \rightarrow \frac{1}{160} \rightarrow \frac{1}{320} \rightarrow \frac{1}{640} \rightarrow \frac{1}{1280} \rightarrow \frac{1}{2560} \rightarrow \frac{1}{5120} \rightarrow \frac{1}{10240} \rightarrow \frac{1}{20480} \rightarrow \frac{1}{40960} \rightarrow \frac{1}{81920} \rightarrow \frac{1}{163840} \rightarrow \frac{1}{327680} \rightarrow \frac{1}{655360} \rightarrow \frac{1}{1310720} \rightarrow \frac{1}{2621440} \rightarrow \frac{1}{5242880} \rightarrow \frac{1}{10485760} \rightarrow \frac{1}{20971520} \rightarrow \frac{1}{41943040} \rightarrow \frac{1}{83886080} \rightarrow \frac{1}{167772160} \rightarrow \frac{1}{335544320} \rightarrow \frac{1}{671088640} \rightarrow \frac{1}{1342177280} \rightarrow \frac{1}{2684354560} \rightarrow \frac{1}{5368709120} \rightarrow \frac{1}{10737418240} \rightarrow \frac{1}{21474836480} \rightarrow 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