childsmath $\int_M d\omega = \int_{\partial M} \omega$
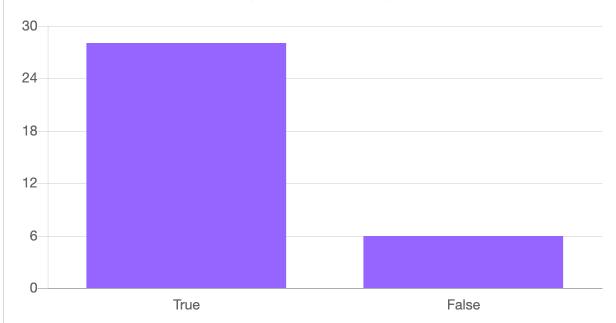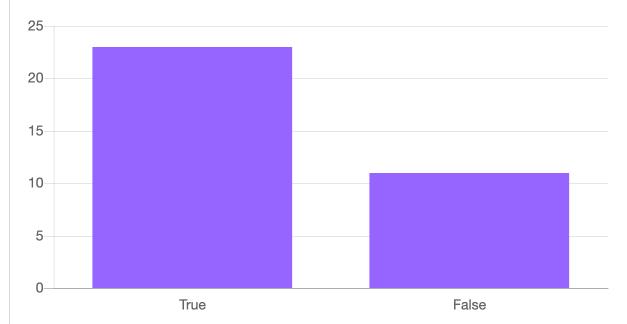
Math 3A03
Poll Results
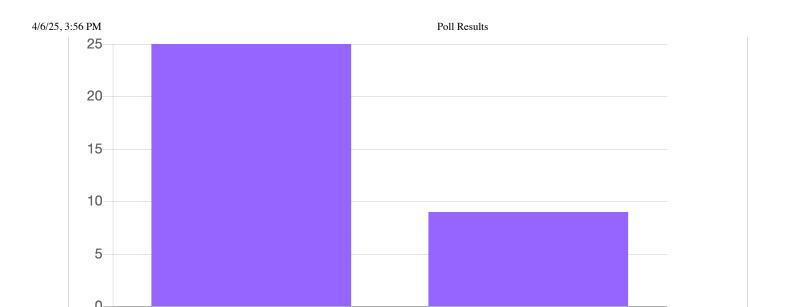
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Function sequences: Pointwise convergence

Question #1 Suppose $\{f_n\}$ is a sequence of functions with the property that f_n converges to f pointwise. If each f_n is continuous then f must be continuous.

Question #2 If each f_n is differentiable then f must be differentiable and $\lim_{n\to\infty} f_n' = f'$.

Question #3 If each f_n is integrable then f is integrable, and $\lim_{n\to\infty} \int_a^b f_n = \int_a^b f$.

Poll Results