childsmath

$$\int_M d\omega = \int_{\partial M} \omega$$

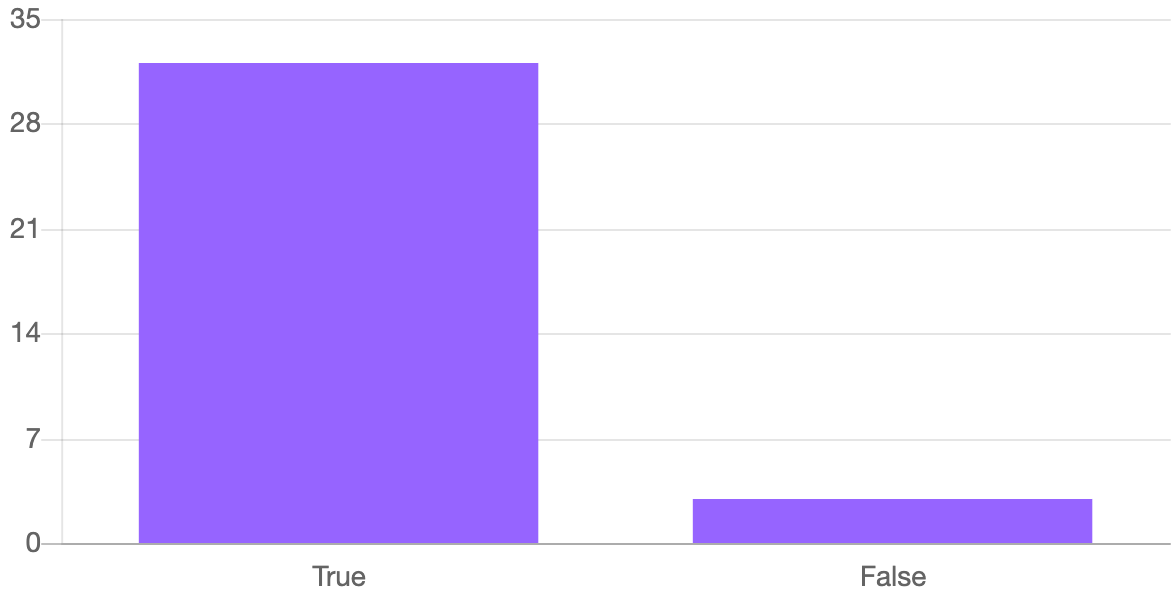
Math 3A03
Poll Results

earn

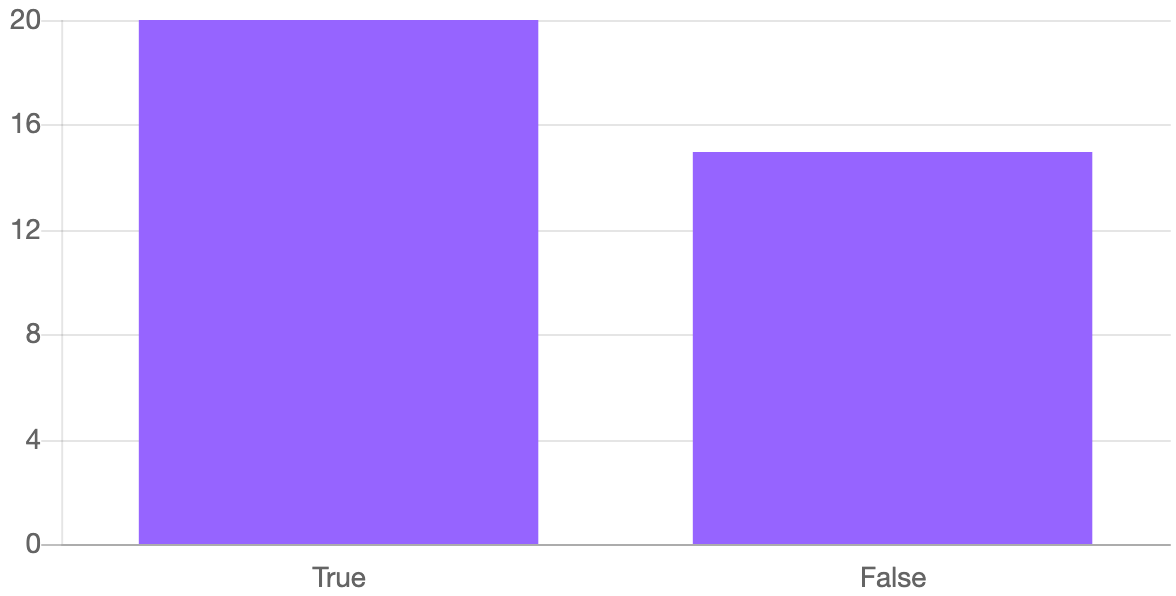
Function sequences: Uniform convergence

Question #1 Suppose $\{f_n\}$ is a sequence of functions with the property that f_n converges to f uniformly.

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 $\lim_{n\to\infty} \int_a^b f_n = \int_a^b f$.