Math 1525	Calculus I	Quiz 11	Name:
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Problem 1. Compute the definite integral

$$\int_{-1}^{2} \frac{x^2}{\sqrt{1+x^3}} \, dx.$$

Problem 2. Compute the average distance between the sine and cosine waves by computing

$$\frac{2}{\pi} \int_{\pi/4}^{3\pi/4} (\sin x - \cos x) \, dx.$$