# Mathematics 1110H - Calculus I: Limits, Derivatives, and Integrals Trent University, Summer 2023 (S61) <br> Quiz \#8 <br> <br> Etch A Sketch? <br> <br> Etch A Sketch? <br> Due* just before midnight on Thursday, 1 June. 

Please show all your work when answering the question below.

1. Let $f(x)=\frac{x}{1-x^{2}}$. Find the domain, all the intercepts, vertical and horizonal asymptotes, intervals of increase and decrease, maxima and minima, intervals of concavity, and inflection points of $f(x)$. Sketch the graph of $f(x)$ based on this information. [10]
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[^0]:    * You should submit your solutions via Blackboard's Assignments module, preferably as a single pdf. If this fails, you may submit your work to the instructor on paper or by email to sbilaniuk@ trentu.ca.

