

QUIZ 3 - MATH 152

Friday, September 18

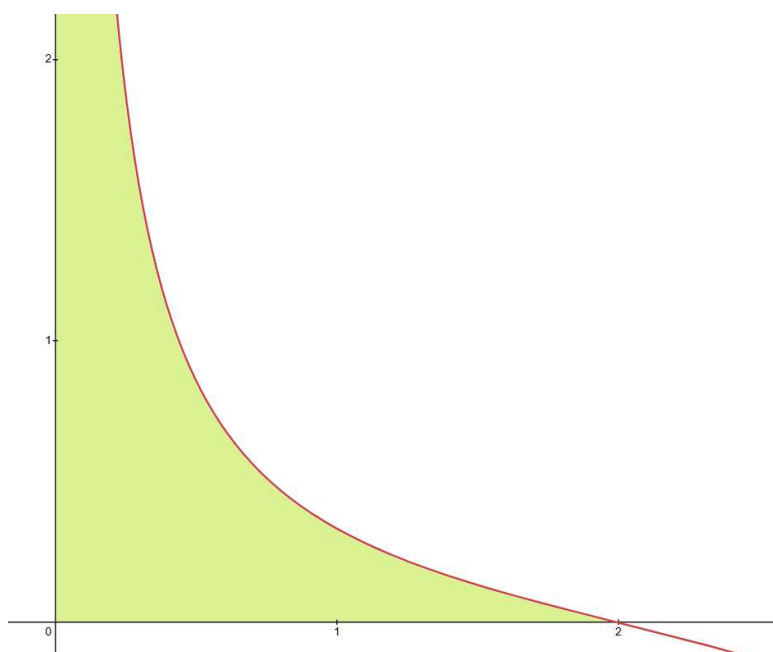
YOUR NAME: _____

George Voutsadakis

Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [6 points] Compute the improper integral

$$\int_0^2 \frac{x-2}{x^2-4x} dx.$$



2. [6 points] Calculate the area of the region enclosed by the graphs of $f(x) = x^2 - 3$ and $g(x) = 1 - x^2$. Show all steps by hand.

