MATH 134 – Calculus with Fundamentals 2
Makeup Quiz 4 – March 20, 2018

Your Name: _____

Directions

There are 30 total points possible (distributed as indicated in the questions on both sides). You may use a calculator, but not a phone or any other electronic device.

(A) (15) Let R be the region between $y = x^2 - 1$ and the x-axis, and between $x = 1$ and $x = 2$. Find the volume of the solid obtained by rotating the region R about the y-axis. (Partial credit will be given for a correct sketch of the region even if you cannot see how to set up the volume integrals.)

(B) (15) Integrate by parts: $\int x^3 \ln(x/2) \, dx$. (Partial credit will be given for the correct du and v from your u and dv and for the correct parts formula even if you cannot see how to finish.)