

Print Your Name: _____ Section: _____

Math-1060 - Homework 3

Solve **all** the problems on separate paper. You are allowed to discuss with your classmates, but the work you hand in must be your own. Please:

- Print your **Full Name, Section Number** (on the top of first Page) and **problem number** on your homework. Otherwise, the grader may not be able to give you the credit.
- Write neatly, show all work, use proper mathematical notation, and organize your work clearly. If the grader cannot follow your work or certain steps are missing or not justified, you may not receive full credit.
- Write your solution on A4 size paper and staple your homework if more than 1 page. Being well-organized can help you get more credits in both homework and exams.

Each problem is worth 10 points. Due 10/5/2017.

- (1) Simplify the expression $e^{(\ln x + \ln y)}$.
- (2) Evaluate $\lim_{x \rightarrow 0^+} (1 + \csc(x))$.
- (3) Given $f(x) = \frac{x-1}{x^2+x-2}$, state the equations of all vertical asymptotes of $f(x)$.
- (4) 16 pg 189
- (5) 41 pg 190
- (6) 50 pg 190
- (7) 2 pg 197
- (8) 13 pg 197
- (9) 19 pg 197
- (10) 43 pg 198