

## Math 1152 Written Homework 3

**Due:** Thursday, June 2nd in Gradescope.

- Calculators are permitted EXCEPT those calculators that have symbolic algebra or calculus capabilities.
- SHOW ALL WORK!
- A completed version of this document is due to be uploaded to Gradescope by 11:59pm on **Thursday, June 2nd**.
- If you have difficulties using Gradescope, see pages under the Gradescope header in the Modules section of our Carmen page for help.
- Ideally, this can be completed on an iPad or android tablet using an app like One Note, Notability, Papyrus, etc. - if you don't have access to one of these options, then printing and scanning or using a smartphone document-scanning feature to generate a pdf to upload will also work.
- If you have difficulties uploading the assignment, email a pdf to your recitation instructor.
- This homework will be graded via random subset selection - not every part of every question will be looked at by the grader.
- Rubrics to applicable questions will be provided later.

**Question 1.** Write the general form of the partial fraction decomposition for

$$\frac{-x^4 + 3x^5 + 8}{(x^2 + 4)(x^2 - 2x - 3)(x^2 + 4x + 3)}.$$

Do **NOT** solve for constants.