Section 7.5: Partial Fractions

MATH 131: Calculus II, Section 2

Name (Print):
Due: Wednesday, October 24, 2018 at the beginning of class
After reading Section 7.5 (pages 541-548 in the text), respond to the following questions on this handout. Be sure to staple your pages together before turning it in if they are not double sided. You must answer all parts to all questions to earn full credit!!! Also, use FULL SENTENCES to answer questions that require words. See the salmon homework guidelines handout for details.
Response Section
1. Give an example of a function that can be integrated using partial fractions, and then another example of a function that cannot. In general, to what kinds of functions can the method of partial fractions be applied?
2. For each part below, give an example of a function with the noted feature and identify the feature within the function. Give an example of a function that has:
(a) a simple linear factor
(b) a repeated linear factor
(c) a simple irreducible quadratic factor
(d) a repeated irreducible quadratic factor
3. What is the first step we must do in order to integrate $\frac{6x^2 - 3x + 5}{7x - 4}$? Explain why (though you need not actually do it).

4. Copy the Procedure for Partial Fractions with Simple Linear Factors on page 542.
Questions/Overview Section
5. Write down any questions you have on the reading. Be as specific as possible! See the salmon homework guidelines handout for details.
Reflection Section
6. Write two or three sentences reflecting on the process of your work so far in the course. See the salmon homework guidelines handout for details.
Time Section
7. How much time did you spend on this reading assignment?