TEST PREP on 7.4 and 7.5 - Dr. Loveless

- These problem come *directly* from the Dr. Loveless Exam archive on my review materials page. You can find solutions in that archive. Try to put yourself in an exam like situation as you attempt these. Could you do this on an exam?
- You might want to check out my materials page for my integration flowchart and other review material to see if they would help you!

From 7.4 material

Fall 2017 - Exam 2 - Problem 1(a) - Dr. Loveless

1(a). Evaluate $\int \frac{x-1}{x^3-2x^2}dx$

Winter 2013 - Exam 2 - Problem 1(a) - Dr. Loveless

1(a). Evaluate $\int \frac{x^2+2}{x^4+x^3}dx$

From 7.1-7.5 material

Fall 2019- Exam 2 - Problem 3(b) - Dr. Loveless

3(b). Evaluate $\displaystyle\int_1^5 \frac{\sqrt{x-1}}{x+3}\,dx$

Spring 2016 - Exam 2 - Problem 1(a) - Dr. Loveless

1(a). Evaluate $\displaystyle\int_0^{\pi^2} \sin\left(\frac{\sqrt{x}}{4}\right)\,dx$

Fall 2019 - Exam 2 - Problem 3(a) - Dr. Loveless

3(a). Evaluate $\int \frac{x^2+16}{x^3+2x^2}\,dx$

Spring 2016 - Exam 2 - Problem 2(b) - Dr. Loveless

2(b). Evaluate $\int \frac{1}{\sqrt{x^2+6x+5}}\,dx$

Winter 2017 - Exam 2 - Problem 1(a) - Dr. Loveless

1(a). Evaluate $\int \tan^3(5x)\sec^3(5x)\ dx$

Winter 2017 - Exam 2 - Problem 2(b) - Dr. Loveless

2(b). Evaluate $\int \sqrt{27+6x-x^2}\ dx$