

Name: Due: Midnight, Sept. 7

In **30 minutes** do the following problems, **without help** from any references, computing devices, or people.

Write your solutions either on a printout, or blank paper. If you use blank paper, do the problems on 1 sheet of paper, in the order given. Upload a pdf of your solutions to Gradescope, by midnight.

Compute the following. You may use more than one technique of integration on each problem. Show your work.

1. 
$$\int \frac{1}{x^2 - 4x + 3} dx$$

$$2. \int \frac{1}{x^2\sqrt{9+x^2}} \, dx$$