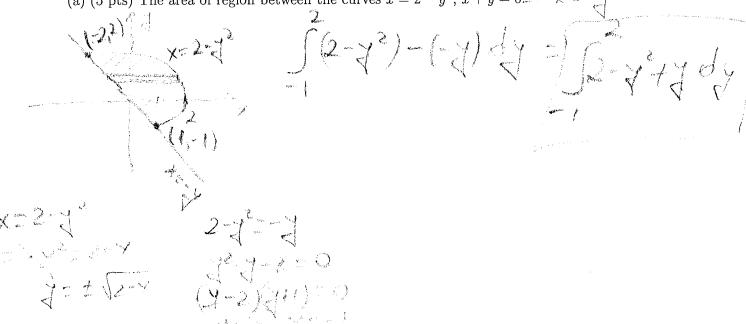
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Name:

To receive credit you MUST SHOW ALL YOUR WORK.

1. Set up an integral (or integrals) that represent each of the following. You are NOT required to evaluate the integrals. A sketch the region or solid is required, along with the integral (or integrals).

(a) (5 pts) The area of region between the curves  $x = 2 - y^2$ , x + y = 0.



(b) (5 pts) The volume of the solid obtained when the region bounded by  $y = \sqrt{x}$ , the x-axis and the line x = 4 is revolved around the line x = 4. Specify clearly what method you are using. You will receive 2 bonus points if you correctly solve the problem with both methods.

STO (4-ye) dy

Stell wethod

STO (4-x) TX dx

STO (4-x) TX dx