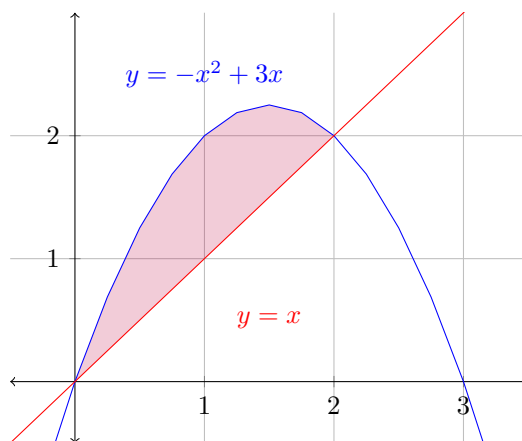


Please show **all** your work! Answers without supporting work will not be given credit.
Write answers in spaces provided.

Name: _____

1. [5 pts] Let R be the region shown below. Set up the integral that computes the **VOLUME** as R is rotated around the x -axis.

DON'T COMPUTE IT!!!



Volume = _____

2. [5 pts] Set up the integral that computes the **VOLUME** of the region bounded by

$$y = \sqrt{4-x}, \quad y = 0, \quad x = 0$$

around the y -axis.

DON'T COMPUTE IT!!!

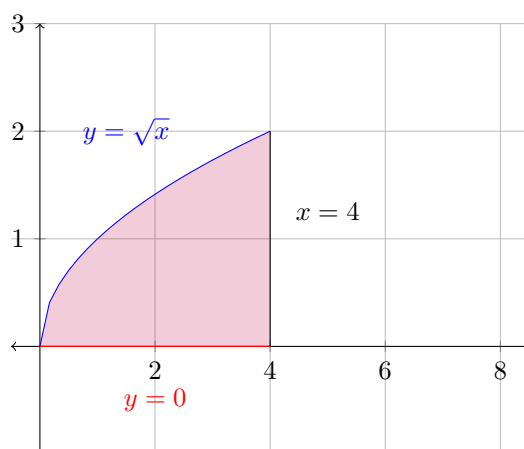
Volume = _____

Please show **all** your work! Answers without supporting work will not be given credit.
Write answers in spaces provided.

Name: _____

1. [5 pts] Let R be the region shown below. Set up the integral that computes the **VOLUME** as R is rotated around the $x = 4$.

DON'T COMPUTE IT!!!



Volume = _____

2. [5 pts] Using the **SHELL METHOD**, set up the integral that computes the **VOLUME** of the region bounded by

$$x = y^2 - 2y - 8, \text{ and } x = 0$$

around the x -axis.

DON'T COMPUTE IT!!!

Volume = _____