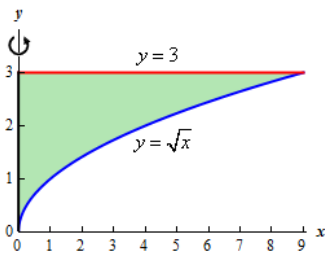


CW 6.1 to 6.4

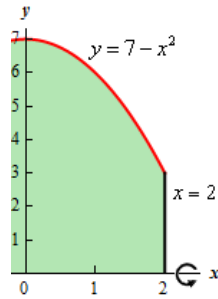
Do the following for each problem:

- 1.) Set up the integral to find the area of the shaded region
- 2.) Set up the integral to find the volume of the solid created when revolving the area around the x-axis using both the washer and shell method.
- 3.) Set up the integral to find the volume of the solid created when revolving the area around the y-axis using both the washer and shell method.
- 4.) Find the perimeter of the region.

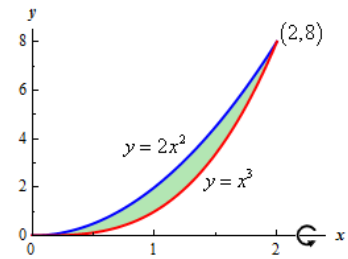
1.



2.

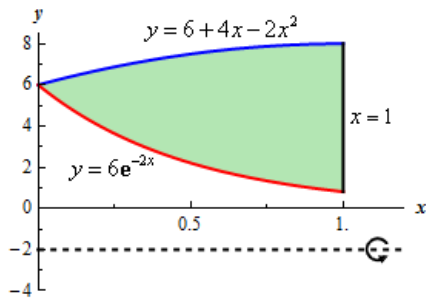


3.

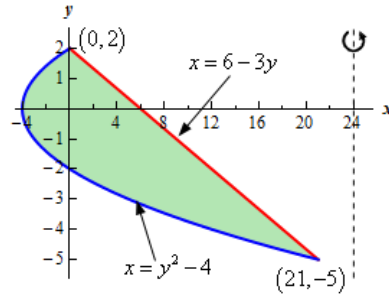


For the following set up an integral to find the volume using any of the methods: (Use the line of the revolution given in the problem.)

4.



5.



6.

