The Shell Method 1

Find the volume of the following solids. Include a graph with each.

- 1. Area formed by $y = x^2$, y = 0, x = 2 rotated over the y axis
- 2. Area formed by $y = x^2$, y = 0, x = 2 rotated over x = 4.
- 3. Area between by $y = x^2$, $y = 4x x^2$, rotated over the y-axis.

4. Area between by $y = x^2$, $y = 4x - x^2$, rotated over x = -2.

5. Area formed by $y = x^3$, y = 0, x = 2 rotated over the y - axis.

6. Area between by y = x, $y = x^2$, rotated over the y-axis.

7. Area between by y = x, $y = x^2$, rotated over the x = -2.

8. Area between by y = x, $y = x^2$, rotated over the x = 2.



16. Over the line x=-1.

17. Over the line x=6.