



Lesson 6-3 Volumes by Cylindrical Shells

- 1- Identify the **radius** and **height** of **shell** and compute the **volume**.

The region bounded by $y = x^2$ and the x-axis, $-1 \leq x \leq 1$, revolved about $x=2$

- A- $r = 2 + y, h = y^2, V = 8.4$
 B- $r = 2 - y, h = x^2, V = 8.4$
 C- $r = 2 + x, h = x^2, V = 8.4$
 D- $r = 2 - x, h = x^2, V = 8.4$

- 2- Identify the **radius** and **height** of **shell** and compute the **volume**.

The region bounded by $y = x^2$ and the x-axis, $-1 \leq x \leq 1$, revolved about $x = -2$

- A- $r = 2 + y, h = y^2, V = 8.4$
 B- $r = 2 - y, h = x^2, V = 8.4$
 C- $r = 2 + x, h = x^2, V = 8.4$
 D- $r = 2 - x, h = x^2, V = 8.4$

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- 3- Identify the **radius** and **height** of **shell** and compute the **volume**.

The region bounded by $x^2 + y^2 = 1$, revolved about $y = 2$

- A- $r = 2 - y, h = f(y) = 2\sqrt{1 - y^2}, V = 39.5$
 B- $r = 2 - x, h = f(y) = 2\sqrt{1 - x^2}, V = 39.5$
 C- $r = 2 - y, h = f(y) = \sqrt{1 - y^2}, V = 39.5$
 D- $r = 2 - y, h = f(y) = 2\sqrt{1 - x^2}, V = 39.5$

- 4- Use cylindrical shells to compute the volume.

The region bounded by $y = x^2$ and $y = 2 - x^2$, revolved about $x = -2$

- A- 100.53
 B- 33.51
 C- 10.67
 D- 37



- 5- Use cylindrical shells to compute the volume.
The region bounded by $x = y^2$ and $x = 4$, revolved about $y = -2$
- A- 375
 - B- 402.12
 - C- 134.04
 - D- 145

- 6- Use cylindrical shells to compute the volume.
The region bounded by $x = (y - 1)^2$ and $x = 9$, revolved about $y = 5$
- A- 904.78
 - B- 288
 - C- 576
 - D- 871

- 7- The region bounded by $y = x + 2$, $y = -x - 2$ and $x = 0$ revolved about $y = -2$. Find volume.
- A- 100.53
 - B- 33.51
 - C- 201.06
 - D- 16.76

- 8- The region bounded by $y = x + 2$, $y = -x - 2$ and $x = 0$ revolved about $x = -2$. Find volume.
- A- 100.53
 - B- 33.51
 - C- 201.06
 - D- 16.76

- 9- The region bounded by $y = x + 2$, $y = -x - 2$ and $x = 0$ revolved about the y -axis .
Find volume.
- A- 100.53
 - B- 33.51
 - C- 8.38
 - D- 16.76



10- The region bounded by $y = x + 2$, $y = -x - 2$ and $x = 0$ revolved about the x-axis .
Find volume.

- A- 100.53
- B- 33.51
- C- 8.38
- D- 16.76

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