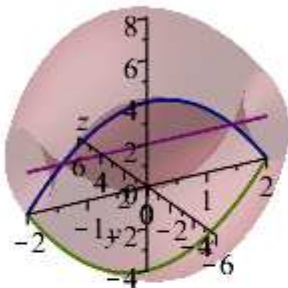


File Help

Plot Window



Display

☒ Volume
 ☐ Disks
 ☐ Region
 ☒ None

Line of Revolution

☒ Horizontal
 ☐ Vertical
Distance of rotation line
from coordinate axis =

2

Enter 1 or 2 functions and an interval

$$f(x) = -x^2 + 4$$

$$g(x) = x^2 - 4$$

$$a = -2$$

$$b = 2$$

Riemann sum

Method:

midpoint

Number of partitions:

6

Volume of the Solid

$$\begin{aligned} & \int_{-2}^2 -8\pi(x^2 - 4) \, dx \\ &= \frac{256}{3} \pi \\ &= 268.0825731 \end{aligned}$$

Display

Animate

Plot Options

Close

Maple Command

```
VolumeOfRevolution(-x^2+4, x^2-4, -2..2, 'axis'=horizontal, 'distancefromaxis' = 2,
'showvolume'=true, 'showsum'=false, 'showregion'=false, 'method'=midpoint, 'partition'=
6, 'output'=plot);
```