

The region bounded by $y = x^3$ and $y = 4x$

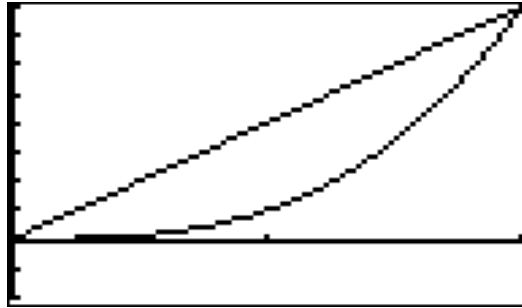


a) Find the area between the 2 curves

b) Find the volume of the solid created using square Cross sections perpendicular to the x-axis

c) Find the volume of the solid created using square Cross sections perpendicular to the y-axis

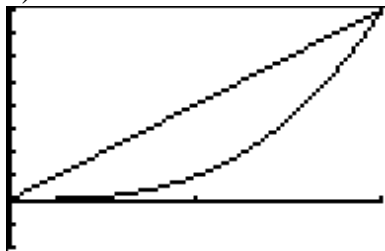
The region bounded by $y = x^3$ and $y = 4x$



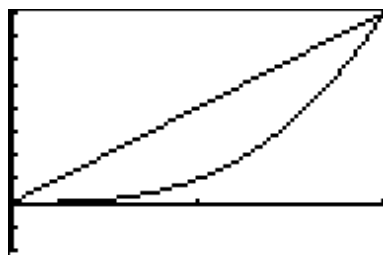
- d) Find the volume of the solid created using isosceles right triangle Cross sections perpendicular to the x-axis
- e) Find the volume of the solid created using isosceles right triangle Cross sections perpendicular to the y-axis
- f) Find the volume of the solid created using semi-circle Cross sections perpendicular to the y-axis
- g) Find the volume of the solid created using semi-circle Cross sections perpendicular to the x-axis

The region bounded by $y = x^3$ and $y = 4x$

h) Find the volume of the solid revolved Around the x-axis

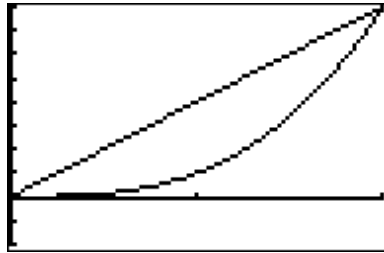


i) Find the volume of the solid revolved Around the y-axis

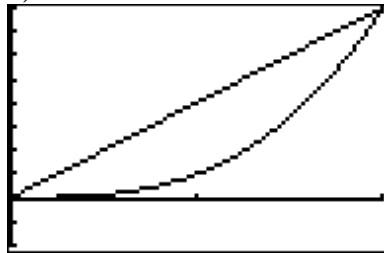


The region bounded by $y = x^3$ and $y = 4x$

j) Find the volume of the solid revolved Around the line $x = 4$



k) Find the volume of the solid revolved Around the line $y = -2$



k) Find the perimeter of the region enclosed by the functions $y = x^3$ and $y = 4x$

