Example

Find the $x$-centroid for the shape below:
Example

Find the $x$-centroid for the shape below. Do you prefer a horizontal or vertical strip for your elemental area? Why?
**Example**

Find the \( y \)-centroid for the shape below. Use the same vertical strip you did for the last example.
Example

Find the $y$-centroid for the shape below. This time use a horizontal strip for the elemental area.

$y = b \left( 1 - \frac{x^3}{a^3} \right)$