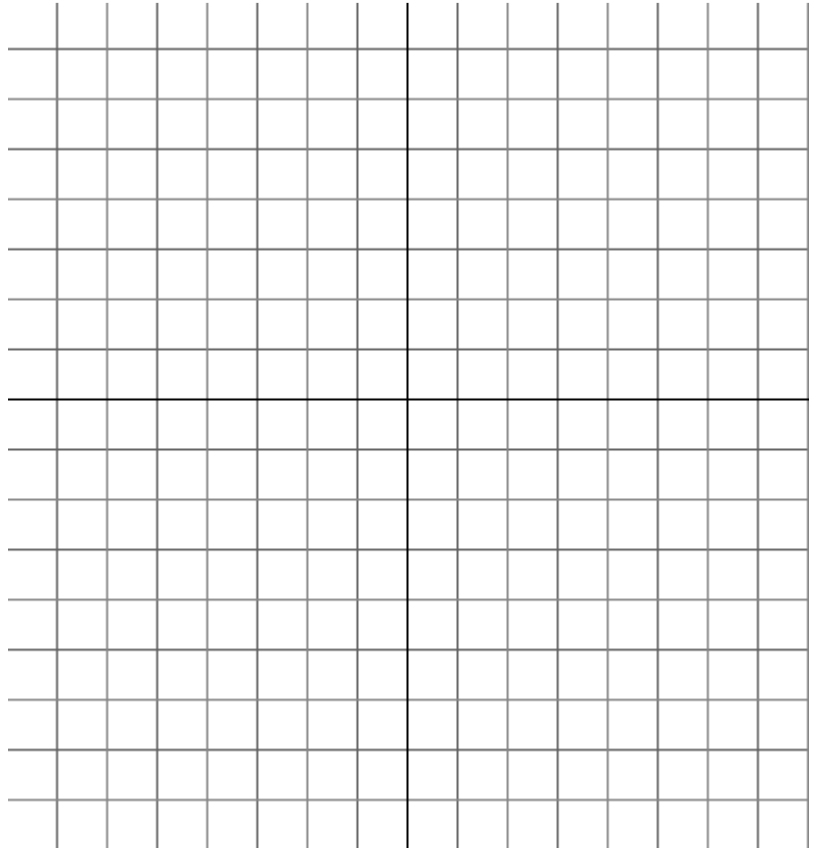
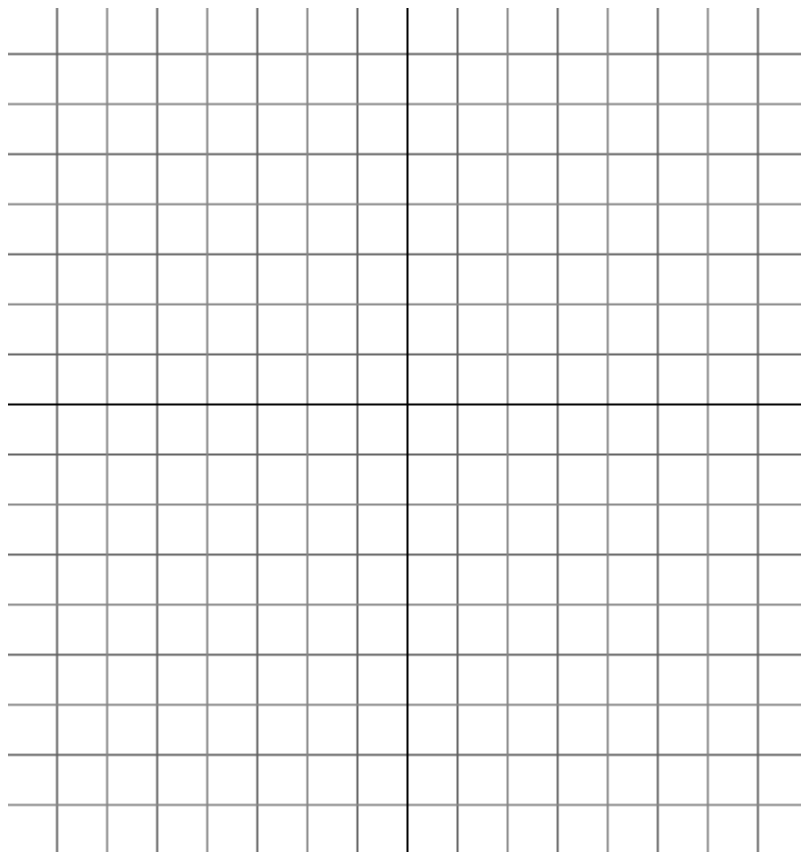


[1] Write a definite integral that represents the Area between the given curves.

(a) $f(x) = \sqrt[3]{x-1}$, $g(x) = x-1$

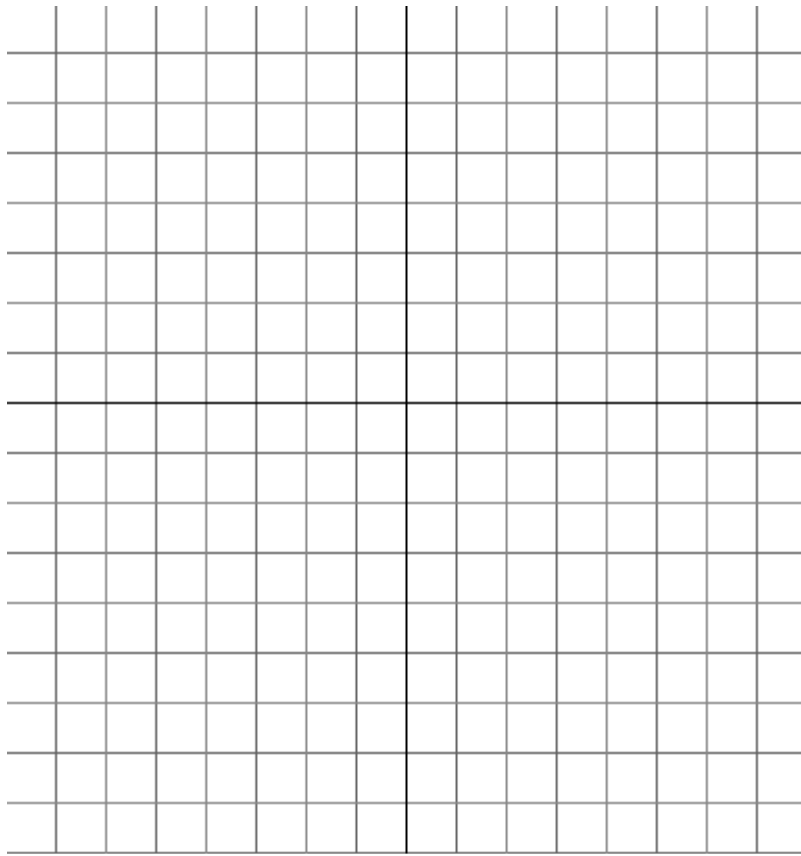


(b) $x = \log_3 y$, $x = \frac{y-1}{2}$



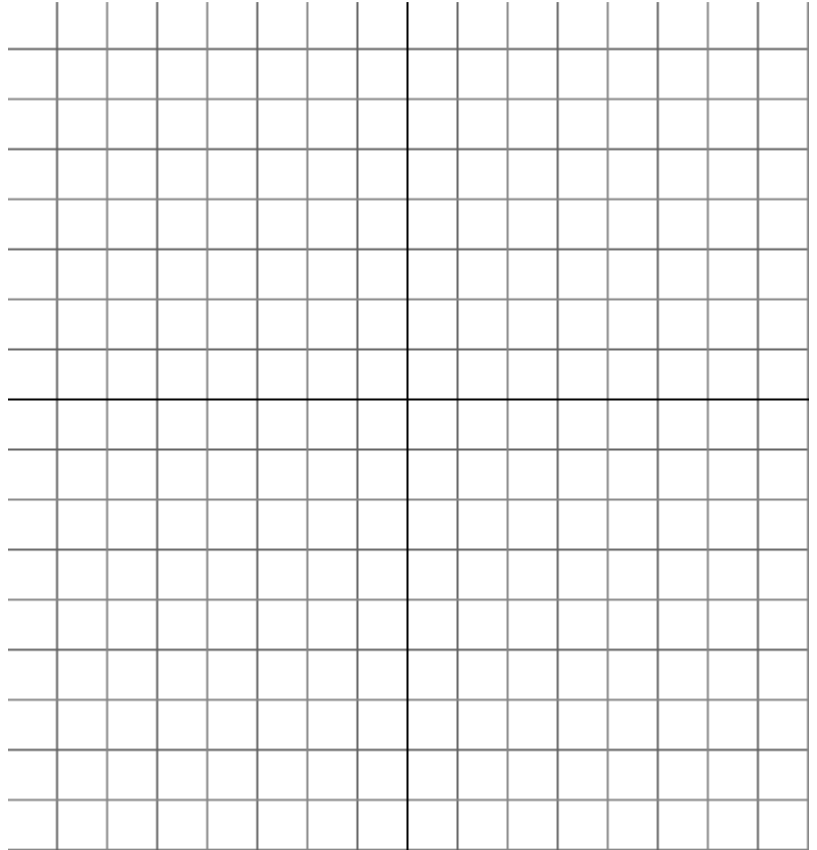
[2] Write a definite integral that represents the volume of the solid that results when the region enclosed by the given curves is revolved about the x -axis.

$y = \sqrt{25 - x^2}$, $y = 3$

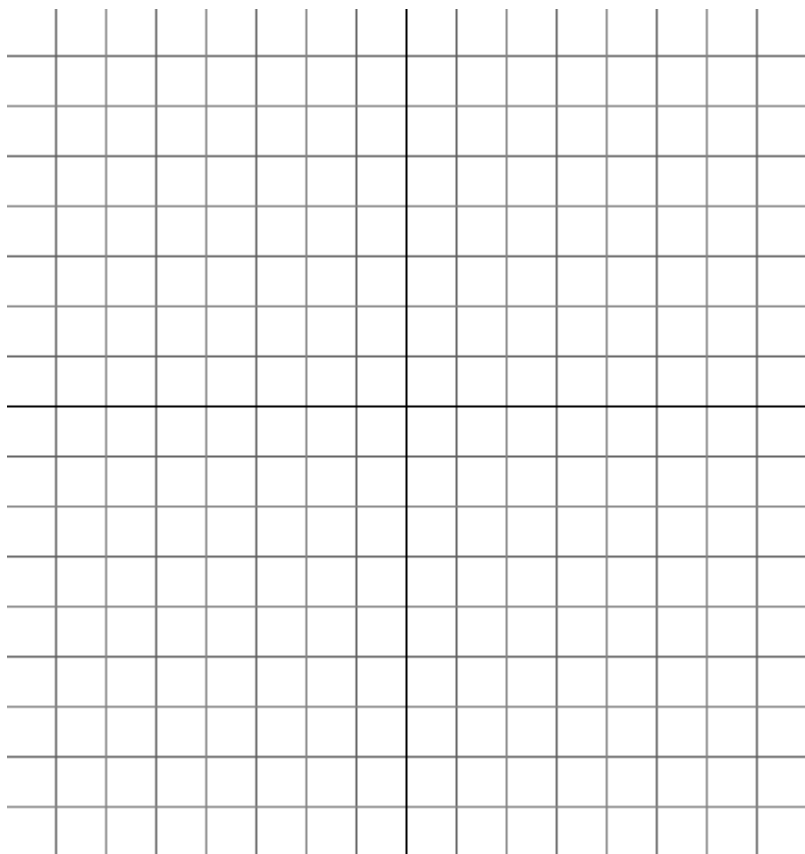


- [3] Write a definite integral that represents the volume of the solid that results when the region enclosed by the given curves is revolved about the y -axis.

$$x = y^2, x = y + 2$$



[4] Write a definite integral that represents the volume of the solid that results when the region enclosed by $y = \sqrt{x}$, $y = 0$, $x = 9$ is revolved about the line $x = 9$.



[5] Write a definite integral that represents the volume of the solid that results when the region enclosed by $x = y^2$ and $x = y$ is revolved about the line $y = -1$.

