



A graph showing the function $y = \frac{1}{\sqrt{16-x^2}}$ plotted against x . The curve starts at $x=0$ and increases as x increases, ending at $x=2$. The area under the curve from $x=0$ to $x=2$ is shaded. The y -axis is labeled y and the x -axis is labeled x . The equation $y = \frac{1}{\sqrt{16-x^2}}$ is written above the curve. The value $x=2$ is labeled on the right side of the shaded region.

$$y = \frac{1}{\sqrt{16-x^2}}$$

$$x = 2$$