

dy/dx

$$-\frac{x^4}{\sqrt{1-x^8}}$$

y

$$-\frac{1}{5}x^5 \operatorname{Hypergeometric2F1}\left[\frac{1}{2}, \frac{5}{8}, \frac{13}{8}, x^8\right]$$

y(1)

$$\frac{\sqrt{\pi} \operatorname{Gamma}\left[\frac{13}{8}\right]}{5 \operatorname{Gamma}\left[\frac{9}{8}\right]}$$

y(1)

$$0.337488$$