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

$$y \qquad -\frac{1}{5}\, x^5\; \text{Hypergeometric2F1}\left[\frac{1}{2},\, \frac{5}{8},\, \frac{13}{8},\, x^8\right]$$

$$y(1) \qquad -\frac{\sqrt{\pi}\;\; \text{Gamma}\left[\frac{13}{8}\right]}{5\; \text{Gamma}\left[\frac{9}{8}\right]}$$

$$y(1) \qquad -0.337488$$