

### Extra Credit #1

**Optional, for extra credit.** Determine, to an accuracy of three significant figures, the distance from E to F *along the parabolic curve*. In other words, if you walked from E to F along the curve, how far would you have walked? The equation for the curve is

$$y = 1 - x^2.$$

E is at  $(-1, 0)$  and F is at  $(1, 0)$ .

