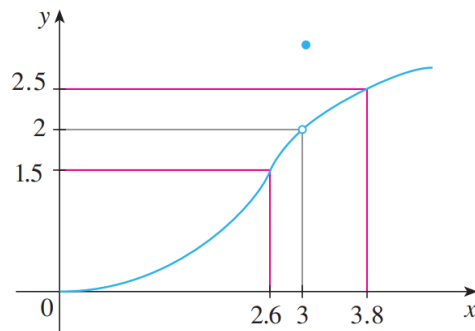


Exercise 2

Use the given graph of f to find a number δ such that

$$\text{if } 0 < |x - 3| < \delta \quad \text{then} \quad |f(x) - 2| < 0.5$$



Solution

As long as δ is less than 0.4 (and greater than zero, of course, so that the discontinuity doesn't matter), the distance from 2 on the y -axis will be less than 0.5.