

### Exercise 3

If a horizontal line has the equation  $f(x) = a$  and a vertical line has the equation  $x = a$ , what is the point of intersection? Explain why what you found is the point of intersection.

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#### Solution

The point of intersection of the two lines is  $(a, a)$  because only at this point are both  $x = a$  and  $y = a$ .