\downarrow

nere are the rour possible functions. F(a)=x,F(b)=y, OR

$$F(a)=y,F(b)=x$$
, OR

$$F(a)=x, F(b)=x$$
, OR

$$F(a) = y, F(b) = y.$$

 $^{11}.\,$ How many graphs contain both the point A=(0,0) and the point B=(1,1)

1/1 point

Infinitely many

O None

 \bigcirc 2

The graphs of $f(x)=x,g(x)=x^2,h(x)=x^3,s(x)=x^4,\dots$ all contain both A and B

12. Suppose that $g:\mathbb{R}\to\mathbb{R}$ is a continuous function whose graph intersects the x-axis more than once. Which of the following statements is true?

1/1 point

All of the above.

lacktriangle g is neither strictly increasing nor strictly decreasing.

g is strictly decreasing.

g is strictly increasing.

Correct

The function g fails the horizontal line test, so it can neither be strictly increasing nor strictly decreasing.

13. Find the slope of the line segment between the points $A=\left(1,1\right)$ and $B=\left(5,3\right)$.

1/1 point

0 4

 \bigcirc 2 0 2 1

 \circ

The slope of this line segment is $\frac{3-1}{5-1}=\frac{1}{2}$, where 3-1 is the rise and 5-1 is the Correct run.