**Identity Crisis**

For each graph below, identify the name of the function. Your choices are:

$f\left(x\right)=x$, $f\left(x\right)=x^{2}$, $f\left(x\right)=x^{3}$, $f\left(x\right)=\sqrt{x}$, $f\left(x\right)=\sqrt[3]{x}$, $f\left(x\right)=\left|x\right|$

Write its domain and range in interval notation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Graph | Function | Domain | Range |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |

Which functions have the same domain and range?

Which functions have the domain [0,)?

Which functions have the domain (-,) and range [0.)?

Which functions have the domain [0,) and range [0.)?

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My notes on Continuity …

A function is continuous if \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 We use \_\_\_\_\_\_\_\_\_\_\_\_\_ notation to write the functions domain of continuity.

 Continuous intervals for graph

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 6.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_