

Domain and Range Quiz PDF

What is the range of the function $f(x) = \sqrt{x}$?

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 (-∞, ∞) [0, ∞) (-∞, 0] [0, 1]
Which of the following functions has a range of all real numbers?
$f(x) = x^2$ $f(x) = x^3$ $f(x) = \sqrt{x}$ $f(x) = 1/x$
Which functions have a range of (0, ∞)? (Select all that apply)
$f(x) = e^{x}$ $f(x) = \ln(x)$ $f(x) = x^{2} + 1$ $f(x) = 1/x$
For the function $f(x) = \sin(x)$, what is the range?
(-∞, ∞)[0, 1][-1, 1](0, ∞)
What is the range of the function $f(x) = e^x$?
(-∞, ∞)[0, ∞)

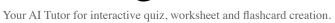
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(0, ∞) (-1, 1]					
Which of the following describes the domain of $f(x) = ln(x)$?					
$ \bigcirc (-\infty, \infty) $ $ \bigcirc (0, \infty) $ $ \bigcirc [0, \infty) $ $ \bigcirc (-\infty, 0] $					
What is the domain of the function $f(x) = 1/(x-2)$?					
$\bigcirc (-\infty, \infty)$ $\bigcirc (-\infty, 2) \cup (2, \infty)$ $\bigcirc [2, \infty)$ $\bigcirc (2, \infty)$					
Which of the following are true about the function $f(x) = cos(x)$? (Select all that apply)					
 □ Domain is all real numbers □ Range is [-1, 1] □ It is a periodic function □ It has vertical asymptotes 					
Which of the following functions have a domain of all real numbers? (Select all that apply)					
Explain how to determine the domain of a rational function.					

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Describe the process of finding the range of a quadratic function.							
	//						
What is the significance of the vertical line test in relation to domain and range?							
	//						
How does the concept of asymptotes affect the domain and range of a function?							
	<u> </u>						
Provide an example of a piecewise function and explain how to determine its domain and range.							
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Discuss how the domain and range of a function are affected when it is composed with another function.							
For the function $f(x) = 1/(x^2 - 1)$, which values are excluded from the domain? (Select all that apply)							
x = 0							
x = 2							
Which of the following functions has a domain of all real numbers?							
\bigcirc f(x) = 1/x							
\bigcirc f(x) = In(x)							
$\bigcirc f(x) = x^3$							
\bigcirc f(x) = \sqrt{x}							
What is the domain of the function $f(x) = x^2$?							
○ (-∞, ∞)							
○ [0, ∞)							
○ (-∞, 0]							
○ [0, 1]							
Which of the following functions have restricted domains due to division by zero? (Select all that apply)							
f(x) = 1/x							
f(x) = 1/(x-2)							
$ f(x) = x^2$							

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Which of the	tollowing tun	ctions have a	range of 10. 9	∞)? (Select al	II that apply)

- f(x) = x^2
- f(x) = e^x
- f(x) = IxI