Class: Composition

- Due Mar 2 at 11:59pm
- Points 7
- Questions 7
- Time Limit None
- Allowed Attempts Unlimited

Instructions

This assignment is an introduction to Composition of Functions focus on the Definition and Examples; Composition of One-to-One Functions; Composition of Onto Functions.

You have multiple attempts answering the questions.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	less than 1 minute	7 out of 7
LATEST	Attempt 2	less than 1 minute	7 out of 7
	Attempt 1	5 minutes	1 out of 7

Correct answers are hidden.

Score for this attempt: 7 out of 7
Submitted Mar 2 at 8:29pm
This attempt took less than 1 minute.

Question 1
1 / 1 pts

Inverse and Identity Functions (https://www.youtube.com/watch?v=tEtFBrDMQ-g&list=PLiwEbczHeZcuf7VyebtyKcVDqfViUkqfh&index=176)

The example in the video has an inverse which is ----- function

- constant
- linear
- quadratics

Question 2

1 / 1 pts

Inverse and Identity Functions (https://www.youtube.com/watch?v=nYSioAVyzgo&list=PLiwEbczHeZcuf7VyebtyKcVDqfViUkqfh&index=177)

Let $f: \mathbf{Z} \to \mathbf{Z}$ be the successor function and let $g: \mathbf{Z} \to \mathbf{Z}$ be the squaring function. Then $f(n) = n + 1$ for all $n \in \mathbf{Z}$ and $g(n) = n^2$ for all $n \in \mathbf{Z}$.

fog=gof

- True
- False

Question 3

1 / 1 pts

one to one function, inverse, and composition (https://www.youtube.com/watch?v=0Gy1OL6jdsY)

Exponential functions are one to one

- True
- False

Question 4

1 / 1 pts

one to one function, inverse, and composition (https://www.youtube.com/watch?v=0Gy1OL6jdsY)

Quadratic functions are one to one.

- True
- False

Question 5

1 / 1 pts

one to one function, inverse, and composition (https://www.youtube.com/watch?v=0Gy1OL6jdsY)

Being one to one is equivalent to passing horizontal line test.

- True
- False

Question 6

1 / 1 pts

one to one function, inverse, and composition (https://www.youtube.com/watch?v=0Gy1OL6jdsY)

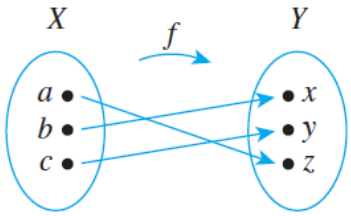
Logarithmic functions are inverse of exponential functions.

- True
- False

Question 7

1 / 1 pts

Let $X = \{a, b, c\}$ and $Y = \{x, y, z\}$. Define $f: X \to Y$ by the following arrow diagram.



f is one to one.

- True
- False

Quiz Score: 7 out of 7