

VU QUIZ REPORT

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Subject: MTH202

Quiz Completed: 5/21/2026, 3:22:58 PM

Total Questions: 10

Mathematical Questions: 5

CROPPED Screenshots: 5

Question 1:

Question # 1 of 10 (Start time: 03:17:45 PM, 21 May 2026)

Total Marks: 1

if f is a bijective function then $(f^{-1}(f(x)))$ is equal to _____

Select the correct option

Reload Math Equations

☐	1
☐	None of these
☐	0
☐	x

You selected: D

Mathematical question (CROPPED screenshot - top 20% removed)

Selected Answer: D

Question 2:

Question # 2 of 10 (Start time: 03:18:55 PM, 21 May 2026)

Total Marks: 1

If $f : X \rightarrow Y$ and $g : Y \rightarrow Z$ are both onto functions. Then $g \circ f : X \rightarrow Z$ is _____.

Select the correct option

Reload Math Equations

☐	associative
☐	bijective
☐	onto
☐	one - to - one

You selected: C

Mathematical question (CROPPED screenshot - top 20% removed)

Selected Answer: C

Question 3:

Question # 3 of 10 (Start time: 03:19:30 PM, 21 May 2026)

Total Marks: 1

Let $f(x) = x^2 + 1$ define functions f from R to R and $c = 2$ be any scalar, then $c \cdot f(x)$ is _____.

Select the correct option

 Reload Math Equations

☐	$2x^2 - 1$
☐	$2x^2 + 2$
☐	$x^3 + 1$
☐	2

You selected: B

Mathematical question (CROPPED screenshot - top 20% removed)

Selected Answer: B

Question 4:

Question # 4 of 10 (Start time: 03:19:58 PM, 21 May 2026)

Total Marks: 1

if $f^{-1}(x) = \frac{6-x}{2}$ then $f^{-1}(2)$ is _____.

Select the correct option

 Reload Math Equations

☐	1
☐	0
☐	3
☐	2

You selected: D

Mathematical question (CROPPED screenshot - top 20% removed)

Selected Answer: D

Question 5:

What does 'r' denotes in a geometric sequence?

A. Common ratio

B. Explicit formula

C. Common difference

D. Sum

Selected Answer: A

Question 6:

Let $X = \{1, 5, 9\}$ and $Y = \{3, 4, 7\}$. Define a function f from X to Y such that $f(1) = 7$, $f(5) = 3$, $f(9) = \dots$. Which is true for $f(9)$ to make it a one-to-one (injective) function?

A. 1

B. 4

C. 7

D. 3

Selected Answer: B

Question 7:

Question # 7 of 10 (Start time: 03:21:14 PM, 21 May 2026)

Total Marks: 1

Which of the following is the example of an alternating sequence?

Select the correct option

Reload Math Equations

☐	$C_n = \frac{(-1)^n}{n+2} \text{ for } n \geq 0$
☐	$C_n = \frac{1}{n} \text{ for } n > 0$
☐	$C_n = \frac{(-1)}{n+2} \text{ for } n \geq 0$
☐	$C_n = \frac{n}{n+1} \text{ for } n \geq 0$

You selected: A

Mathematical question (CROPPED screenshot - top 20% removed)

Selected Answer: A

Question 8:

The composition functions $f \circ g$ and $g \circ f$ are always equal.

A. False

B. True

C. Option C not found

D. Option D not found

Selected Answer: A

Question 9:

Number of one to one functions form $X=\{a,b\}$ to $Y=\{u,v\}$ are equal to

A. 2

B. 3

C. 5

D. 4

Selected Answer: A

Question 10:

A function is bijective if it is

A. one to one but not onto

B. not one to one and not onto

C. one to one and onto

D. not one to one but onto

Selected Answer: C

Mathematical Questions Note:

Questions containing mathematical equations and symbols are displayed as CROPPED screenshots (top 20% removed for privacy) to preserve the original formatting. Your selected answers are displayed below each screenshot for easy reference.