

Brett Robbins Academic Consulting

Mathematics 20-1 Practice Test

Unit 6: Absolute Value and Reciprocal Functions

5 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

Question 1

The value of $|-7| + |3 - 8|$ is

- A) 2
B) -2
C) -12
D) 12

Question 2

The solutions to the equation $|x - 4| = 9$ are

- A) $x = -5$ and $x = 13$
B) $x = 5$ and $x = 13$
C) $x = -13$ and $x = 5$
D) $x = 13$ only

Question 3

The vertex of the graph of $y = |x - 3| + 2$ is

- A) $(-3, 2)$
B) $(3, 2)$
C) $(3, -2)$
D) $(-3, -2)$

Question 4

The non-permissible value of x for the function $y = \frac{1}{x+5}$ is

- A) $x = 5$
B) $x = 0$
C) $x = -5$
D) $x = 1$

Question 5

The sum of the solutions to the equation $|2x + 1| = 7$ is _____.

Answer Key

- | | | |
|------|------|-------|
| 1. D | 3. B | 5. -1 |
| 2. A | 4. C | |

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