

Brett Robbins Academic Consulting

Mathematics 10C Practice Test

Unit 6: Systems of Linear Equations

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 solution to the system $y = 2x + 1$ and $y = -x + 7$ is

- A) (2, 5)
- B) (5, 2)
- C) (-2, 5)
- D) (2, -5)

Question 2

The solution to the system $x + y = 11$ and $y = 3x - 5$ is

- A) (7, 4)
- B) (4, 7)
- C) (3, 8)
- D) (4, -7)

Question 3

The system $y = 3x + 2$ and $y = 3x - 4$ has

- A) one solution
- B) no solution
- C) infinitely many solutions
- D) two solutions

Question 4

The solution to the system $2x + y = 10$ and $x - y = 2$ is

- A) (2, 4)
- B) (-4, 2)
- C) (4, 2)
- D) (4, -2)

Question 5

Which ordered pair is a solution to both $y = x + 3$ and $2x + y = 9$?

A) (1, 4)

B) (3, 6)

C) (4, 7)

D) (2, 5)

Answer Key

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

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