PRINCE EDWARD ISLAND PRE-CALCULUS 11 · UNIT E

Absolute Value Functions, Systems of Equations and Inequalities — Practice Test

Prince Edward Island Pre-Calculus 11 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Solve the equation |x - 3| = 5 What is the larger solution**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Solve the equation |x - 3| = 5 What is the smaller solution**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Solve the system x + y = 10 x - y = 2 What is the value of x**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Solve the system x + y = 10 x - y = 2 What is the value of y**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A closed interval includes its**

A midpoint only

B interior only

C exterior

D endpoints

Understand It with Pulse | Flag a mistake

6 **A system of two linear equations has infinitely many solutions when the lines are**

- A parallel and distinct
- B perpendicular
- C the same line
- D intersecting once

Understand It with Pulse | Flag a mistake

7 **A system of two linear equations has no solution when the lines are**

- A the same line
- B parallel and distinct
- C perpendicular
- D intersecting

Understand It with Pulse | Flag a mistake

8 **An absolute value equation can have at most**

A one solution

B two solutions

C three solutions

D no solutions ever

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9 **Elimination solves a system by**

A multiplying only

B adding or subtracting equations to remove a variable

C graphing only

D factoring only

Understand It with Pulse | Flag a mistake

10 **Graphing y = |x| shifted 2 units to the right gives**

- A y = |x + 2|
- B y = |x| + 2
- C y = |x| - 2
- D y = |x - 2|

Understand It with Pulse | Flag a mistake

11 **Graphing y = |x| shifted 3 units up gives**

- A y = |x| + 3
- B y = |x| - 3
- C y = |x + 3|
- D y = |x - 3|

Understand It with Pulse | Flag a mistake

12 **If x + y = 8 and x = 3 , then y =**

- A 5
- B 11
- C 3
- D 8

Understand It with Pulse | Flag a mistake

13 **Substitution solves a system by**

- A replacing a variable with an equivalent expression
- B adding the equations only
- C graphing only
- D guessing

Understand It with Pulse | Flag a mistake

14 **The absolute value of a number is its distance from**

A one

B zero

C itself

D infinity

Understand It with Pulse | Flag a mistake

15 **The absolute value of -7 is**

A 7

B -7

C 0

D -14

Understand It with Pulse | Flag a mistake

16 **The equation |x| equals 4 has solutions**

A x equals 4 only

B x equals -4 only

C x equals 4 and x equals -4

D no solution

Understand It with Pulse | Flag a mistake

17 **The graph of y = |x| is shaped like a**

A line

B parabola

C circle

D V

Understand It with Pulse | Flag a mistake

18 **Solve the equation |x - 2| = 7 What is the larger solution**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Solve the equation |x - 2| = 7 What is the smaller solution**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Solve the system x + y = 12 x - y = 4 What is the value of x**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Solve the system x + y = 12 x - y = 4 What is the value of y**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Solve the equation |x - 4| = 6 What is the larger solution**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Solve the equation |x - 4| = 6 What is the smaller solution**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Solve the system x + y = 9 x - y = 3 What is the value of x**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Solve the system x + y = 9 x - y = 3 What is the value of y**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 8
2. -2
3. 6
4. 4
5. D
6. C
7. B
8. B
9. B
10. D
11. A
12. A
13. A
14. B
15. A
16. C
17. D
18. 9
19. -5
20. 8
21. 4
22. 10
23. -2
24. 6
25. 3

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