NEWFOUNDLAND AND LABRADOR MATHEMATICS 2200 · UNIT E · 25 QUESTIONS

Systems and Inequalities — Practice Test

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 x + y = 7 and x - y = 1. The value of x is**



A 4

B 3

C 7

D 1

Understand It with Pulse | Flag a mistake

2 **Solve x + y = 10 and x - y = 6. The value of y is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The solution of 2x + 2 < 10 is**

A x > 4

B x < -4

C x < 4

D x > -4

Understand It with Pulse | Flag a mistake

4 **Apply the definition carefully. When solving an inequality, dividing both sides by a negative number**



A keeps the sign the same

B makes the inequality an equation

C removes the variable

D reverses the inequality sign

Understand It with Pulse | Flag a mistake

5 **A group has 20 items. Type A costs 5 dollars and type B costs 3 dollars, for a total of 84 dollars. The number of type A items is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **Review the key idea. A line and a parabola can intersect in at most how many points?**



A 1

B 2

C 3

D 4

Understand It with Pulse | Flag a mistake

7 **Check the definition first. The solution region of y greater than 2x plus 1 is**



A below the line y equals 2x + 1

B on the line only

C above the line y equals 2x + 1

D to the left of the line only

Understand It with Pulse | Flag a mistake

8 **Solve y = 4x and x + y = 25. The value of x is**

ANSWER

Understand It with Pulse | Flag a mistake

9 **Remember how the term is defined . The system x + y = 3 and x + y = 5 has**



A no solution

B one solution

C infinitely many solutions

D two solutions

Understand It with Pulse | Flag a mistake

10 **The smallest integer satisfying 2x - 5 ≥ 9 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Which point satisfies x + y ≤ 10 and x ≥ 3 ?**

A (2, 5)

B (4, 8)

C (4, 5)

D (9, 9)

Understand It with Pulse | Flag a mistake

12 **Recall the rule. For a linear objective over a bounded feasible region, the optimum occurs at**



A the centre of the region

B any point on an edge only

C the origin always

D a corner point of the region

Understand It with Pulse | Flag a mistake

13 **Solve 2x + 3y = 16 and x - y = -2. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Consider the rule in general. The inequality -2 less than x and x less than 5 describes x values**

A less than -2

B between -2 and 5

C greater than 5

D less than 5 only

Understand It with Pulse | Flag a mistake

15 **Solve x + y = 8 and x - y = 6. The value of x is**

A 1

B 8

C 7

D 6

Understand It with Pulse | Flag a mistake

16 **Solve x + y = 12 and x - y = 6. The value of y is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **The solution of 2x + 3 < 11 is**

A x < 4

B x > 4

C x < -4

D x > -4

Understand It with Pulse | Flag a mistake

18 **Apply the concept. When solving an inequality, dividing both sides by a negative number**

A keeps the sign the same

B reverses the inequality sign

C makes the inequality an equation

D removes the variable

Understand It with Pulse | Flag a mistake

19 **A group has 20 items. Type A costs 6 dollars and type B costs 2 dollars, for a total of 100 dollars. The number of type A items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Review the concept. A line and a parabola can intersect in at most how many points?**

A 1

B 3

C 4

D 2

Understand It with Pulse | Flag a mistake

21 **Think about the principle. The solution region of y greater than 2x plus 1 is**

A above the line y equals 2x + 1

B below the line y equals 2x + 1

C on the line only

D to the left of the line only

Understand It with Pulse | Flag a mistake

22 **Solve y = 3x and x + y = 16. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Apply the principle . The system x + y = 3 and x + y = 5 has**

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

Understand It with Pulse | Flag a mistake

24 **The smallest integer satisfying 5x - 2 ≥ 18 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Review the principle. Which point satisfies x + y ≤ 10 and x ≥ 3 ?**

A (4, 5)

B (2, 5)

C (4, 8)

D (9, 9)

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.