NEWFOUNDLAND AND LABRADOR MATHEMATICS 2200 · UNIT E

Systems and Inequalities — Practice Test

Newfoundland and Labrador Mathematics 2200 • 10 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 **Think about the property. Which point satisfies $x + y \leq 10$ and $x \geq 3$?**

- **A** (2, 5)
- **B** (4, 5)
- **C** (4, 8)
- **D** (9, 9)

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2 **Recall the property. 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 a corner point of the region
- D the origin always

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3 **Solve 2x + 3y = 20 and x - y = -5. The value of x is**

ANSWER _____

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

A between -2 and 5

B less than -2

C greater than 5

D less than 5 only

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5 **Solve x + y = 7 and x - y = 3. The value of x is**

A 2

B 5

C 7

D 3

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

ANSWER _____

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7 **The solution of 2x + 4 < 20 is**

A x > 8

B x < -8

C x > -8

D x < 8

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

A reverses the inequality sign

B keeps the sign the same

C makes the inequality an equation

D removes the variable

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9 **A group has 16 items. Type A costs 4 dollars and type B costs 7 dollars, for a total of 82 dollars. The number of type A items is**

ANSWER _____

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

A 1

B 3

C 2

D 4

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ANSWER KEY

1.	B	**5.**	B	**9.**	10
2.	C	**6.**	6	**10.**	C
3.	1	**7.**	D		
4.	A	**8.**	A		

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