Slope and Systems of Linear Equations — Practice Test

Saskatchewan Foundations of Mathematics and Pre-calculus 10 • 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: 4x + 3 = 35. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The solution of the system 4x + y = 14 and x - 1y = 1 is**

A (2, 3)

B (3, 2)

C (4, 2)

D (3, 3)

Understand It with Pulse | Flag a mistake

3 **Tickets cost 5 dollars for adults and 3 dollars for students. A group buys 1 adult tickets and 4 student tickets. The total cost, in dollars, is**

ANSWER _____

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4 **A line perpendicular to y = 2x + 1 has slope**

A -1/2

B 2

C -2

D $\frac{1}{2}$

Understand It with Pulse | Flag a mistake

5 **Solve the system: x + y = 8 and x - y = 4. The value of x is**

ANSWER _____

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6 **A line parallel to y = 4x + 1 has slope**

A -4

B 4

C -1/4

D $\frac{1}{4}$

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7 **Solve: 3x + 1 = 7. The value of x is**

ANSWER _____

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8 **The solution of the system 2x + y = 7 and x - 2y = -4 is**

A (3, 2)

B (3, 3)

C (2, 3)

D (2, 4)

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9 **Tickets cost 5 dollars for adults and 3 dollars for students. A group buys 1 adult tickets and 2 student tickets. The total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A line perpendicular to y = 6x + 1 has slope**

- **A** 6
- **B** -6
- **C** -1/6
- **D** $\frac{1}{6}$

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11 **Solve the system: x + y = 13 and x - y = -3. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A line parallel to y = 3x + 1 has slope**

- **A** -3
- **B** -1/3
- **C** $\frac{1}{3}$
- **D** 3

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13 **Solve: 4x + 6 = 14. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The solution of the system 1x + y = 4 and x - 4y = -21 is**

- A (-1, 5)
- B (5, -1)
- C (0, 5)
- D (-1, 6)

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15 **Tickets cost 5 dollars for adults and 3 dollars for students. A group buys 2 adult tickets and 6 student tickets. The total cost, in dollars, is**

ANSWER _____

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16 A line perpendicular to y = 3x + 1 has slope

- **A** -1/3
- **B** 3
- **C** -3
- **D** $\frac{1}{3}$

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17 Solve the system: x + y = 6 and x - y = 2. The value of x is

ANSWER _____

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18 Solve: 4x + 5 = 37. The value of x is

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The solution of the system 3x + y = 2 and x - 3y = 4 is**

A (-1, 1)

B (1, -1)

C (2, -1)

D (1, 0)

Understand It with Pulse | Flag a mistake

20 **Tickets cost 5 dollars for adults and 3 dollars for students. A group buys 6 adult tickets and 5 student tickets. The total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A line perpendicular to y = 5x + 1 has slope**

- **A** 5
- **B** -5
- **C** $\frac{1}{5}$
- **D** -1/5

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22 **Solve the system: x + y = 10 and x - y = 2. The value of x is**

ANSWER _____

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23 **Solve: 5x + 4 = 29. The value of x is**

ANSWER _____

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24 The solution of the system 2x + y = -3 and x - 2y = -4 is

A (1, -2)

B (-1, 1)

C (-2, 1)

D (-2, 2)

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25 Tickets cost 5 dollars for adults and 3 dollars for students. A group buys 4 adult tickets and 3 student tickets. The total cost, in dollars, is

ANSWER _____

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ANSWER KEY

1. 8
2. B
3. 17
4. A
5. 6
6. B
7. 2
8. C
9. 11
10. C
11. 5
12. D
13. 2
14. A
15. 28
16. A
17. 4
18. 8
19. B
20. 45
21. D
22. 6
23. 5
24. C
25. 29

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