QUEBEC MATHEMATICS, CULTURAL, SOCIAL AND TECHNICAL OPTION, SECONDARY IV · UNIT B

Algebra — Practice Test

Quebec Mathematics, Cultural, Social and Technical Option, Secondary IV • 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 **A product sells for 90 dollars and costs 30 dollars to make. The profit on one unit in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Expand (x+2)(x+3)**

A x^2+5x+6

B $x^2+-1x+6$

C x^2+5x+5

D x^2+6x+5

Understand It with Pulse | Flag a mistake

3 **Simplify 3x+3x**

- A 6x
- B 9x
- C 0x
- D x^6

Understand It with Pulse | Flag a mistake

4 **Solve for x in 5x+2=27**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Solve the system x+y=12 and x-y=6. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The larger root of $x^2-7x+10=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Solve for x in $2x+3=4x+-3$**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The axis of symmetry of $y=x^2-3x+2$ is x equals**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The slope of the line through (0,0) and (4,6) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Evaluate 3x+4 when x=2**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A product sells for 120 dollars and costs 40 dollars to make. The profit on one unit in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Expand (x+3)(x+4)**

A $x^2+-1x+12$

B $x^2+7x+12$

C x^2+7x+7

D $x^2+12x+7$

Understand It with Pulse | Flag a mistake

13 **Simplify 2x+3x**

A 6x

B 5x

C 1x

D x^5

Understand It with Pulse | Flag a mistake

14 **Solve for x in 4(x+3)=32**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The larger root of $x^2-9x+18=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Solve for x in $4x+1=2x+7$**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The axis of symmetry of $y=x^2-2x+3$ is x equals**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The slope of the line through (1,2) and (3,8) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A product sells for 200 dollars and costs 50 dollars to make. The profit on one unit in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Expand (x+1)(x+5)**

A x^2+6x+5

B $x^2+-4x+5$

C x^2+6x+6

D x^2+5x+6

Understand It with Pulse | Flag a mistake

22 **Simplify 5x+2x**

A 7x

B 10x

C 3x

D x^7

Understand It with Pulse | Flag a mistake

23 **Solve for x in 4x+5=25**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Solve the system x+y=14 and x-y=4. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The larger root of $x^2-10x+21=0$ is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	60	**10.**	10	**19.**	3
2.	A	**11.**	80	**20.**	150
3.	A	**12.**	B	**21.**	A
4.	5	**13.**	B	**22.**	A
5.	9	**14.**	5	**23.**	5
6.	5	**15.**	6	**24.**	9
7.	3	**16.**	6	**25.**	7
8.	1.5	**17.**	3		
9.	1.5	**18.**	1		

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