QUEBEC MATHEMATICS, TECHNICAL AND SCIENTIFIC OPTION, SECONDARY V · UNIT B · 25 QUESTIONS

Algebra — 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 **Expand (x+7)(x+8)**

- A $x^2+15x+56$
- B $x^2+-1x+56$
- C $x^2+15x+15$
- D $x^2+56x+15$

Understand It with Pulse | Flag a mistake

2 **Solve for x in 9(x+8)=162**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Solve for x in 7x+6=9x+0**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The larger root of $x^2-22x+120=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Simplify 8x+9x**

A 17x

B 72x

C 1x

D x^{17}

Understand It with Pulse | Flag a mistake

6 **Solve the system x+y=26 and x-y=10. The value of x is**

ANSWER _____

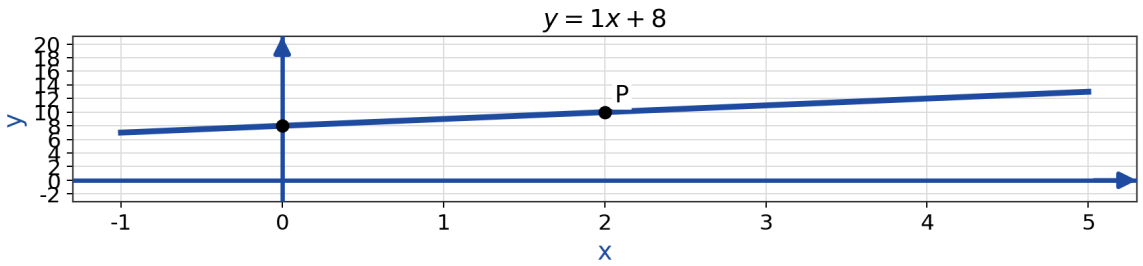
Understand It with Pulse | Flag a mistake

7 **The axis of symmetry of $y=x^2-6x+7$ is x equals**

ANSWER

Understand It with Pulse | Flag a mistake

8 **The graph shows the line y=1x+8. The value of y when x=2 is**



ANSWER

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9 **The y intercept of y=6x+5 is**

ANSWER

Understand It with Pulse | Flag a mistake

10 **Evaluate 7x+8 when x=2**

ANSWER

Understand It with Pulse | Flag a mistake

11 **The slope of the line through (1,2) and (3,16) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Using V=IR with V=40 volts and I=4 amperes the resistance R in ohms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Expand (x+8)(x+6)**

A $x^2+2x+48$

B $x^2+14x+48$

C $x^2+14x+14$

D $x^2+48x+14$

Understand It with Pulse | Flag a mistake

14 **Solve for x in $6x+7=31$**

ANSWER _____

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15 **Solve for x in $8x+5=6x+11$**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The larger root of $x^2-21x+108=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **Simplify 9x+8x**

A 17x

B 72x

C 1x

D x^{17}

Understand It with Pulse | Flag a mistake

18 **Solve the system x+y=22 and x-y=12. The value of x is**

ANSWER _____

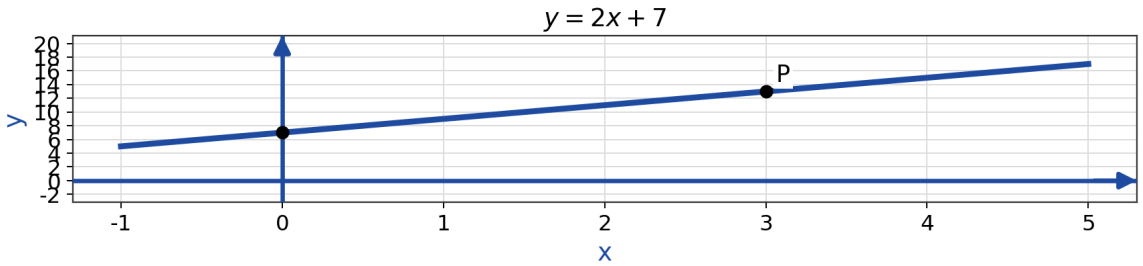
Understand It with Pulse | Flag a mistake

19 **The axis of symmetry of $y=x^2-7x+6$ is x equals**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The graph shows the line y=2x+7. The value of y when x=3 is**



ANSWER

Understand It with Pulse | Flag a mistake

21 **The y intercept of y=9x+7 is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **Expand (x+6)(x+7)**

A $x^2+13x+42$

B $x^2+-1x+42$

C $x^2+13x+13$

D $x^2+42x+13$

Understand It with Pulse | Flag a mistake

23 **Solve for x in $8x+9=49$**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Solve for x in $6x+7=8x+1$**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The larger root of $x^2-18x+77=0$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**10.**	22	**19.**	3.5
2.	10	**11.**	7	**20.**	13
3.	3	**12.**	10	**21.**	7
4.	12	**13.**	B	**22.**	A
5.	A	**14.**	4	**23.**	5
6.	18	**15.**	3	**24.**	3
7.	3	**16.**	12	**25.**	11
8.	10	**17.**	A		
9.	5	**18.**	17		

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