MANITOBA PRE-CALCULUS MATHEMATICS 30S · UNIT A · 25 QUESTIONS

Radical and Rational Equations — 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 for x. The value of x is 4x + 2 = 10**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Evaluate a x + b when a = 7 , b = 4 , and x = 9 . The result is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Two numbers add to 36 and subtract to 2. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Expand the product of x plus 5 and x plus 4. The coefficient of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An arithmetic sequence starts at 8 and increases by 2 each term. Term 9 is**

ANSWER _____

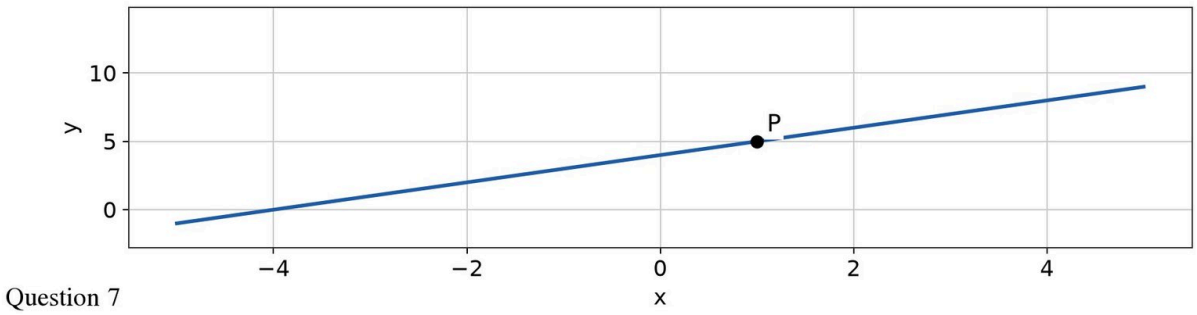
Understand It with Pulse | Flag a mistake

6 **A line passes through (4, 11) and (8, 19). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The graph shows y = 1x + 4 . The value of f(1) is**



Question 7

The graph shows $y = 1x + 4$. The value of $f(1)$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Solve for x. The value of x is 5x + 12 = 42**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Evaluate a x + b when a = 7 , b = 7 , and x = 8 . The result is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Two numbers add to 10 and subtract to 12. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Expand the product of x plus 6 and x plus 4. The coefficient of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **An arithmetic sequence starts at 10 and increases by 5 each term. Term 10 is**

ANSWER _____

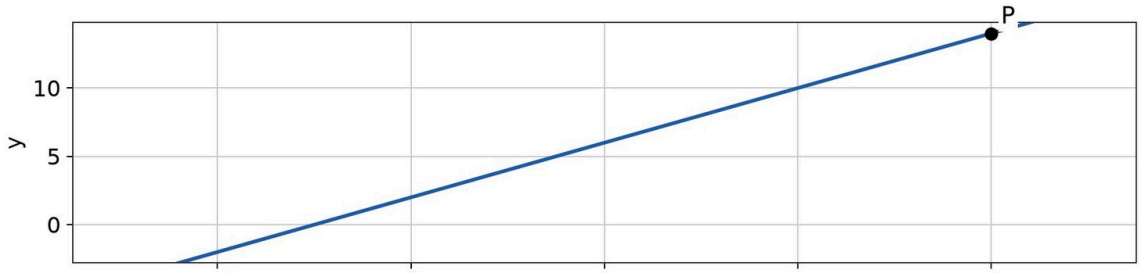
Understand It with Pulse | Flag a mistake

13 **A line passes through (5, 4) and (8, 16). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The graph shows y = 2x + 6 . The value of f(4) is**



Question 14

The graph shows $y = 2x + 6$. The value of $f(4)$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Solve for x. The value of x is 6x + 3 = 63**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The value that makes an equation true is called the**

A solution

B coefficient

C variable

D expression

Understand It with Pulse | Flag a mistake

17 **In the expression 3x plus 5, the number 3 is the**

A constant

B coefficient

C variable

D solution

Understand It with Pulse | Flag a mistake

18 **In the expression 3x plus 5, the letter x is the**

A coefficient

B constant

C variable

D term

Understand It with Pulse | Flag a mistake

19 **A straight line graph has a slope that is**

A increasing

B zero always

C undefined always

D constant

Understand It with Pulse | Flag a mistake

20 **The slope of a horizontal line is**

A zero

B one

C undefined

D negative

Understand It with Pulse | Flag a mistake

21 **The slope of a vertical line is**

A zero

B undefined

C one

D negative

Understand It with Pulse | Flag a mistake

22 **Two lines that never meet are**

A perpendicular

B intersecting

C parallel

D coincident

Understand It with Pulse | Flag a mistake

23 **Two lines that meet at a right angle are**

A parallel

B coincident

C skew

D perpendicular

Understand It with Pulse | Flag a mistake

24 **The point where a graph crosses the y axis is the**

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

25 **The point where a graph crosses the x axis is the**

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	2	**10.**	11	**19.**	D
2.	67	**11.**	10	**20.**	A
3.	19	**12.**	55	**21.**	B
4.	9	**13.**	4	**22.**	C
5.	24	**14.**	14	**23.**	D
6.	2	**15.**	10	**24.**	A
7.	5	**16.**	A	**25.**	B
8.	6	**17.**	B		
9.	63	**18.**	C		

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