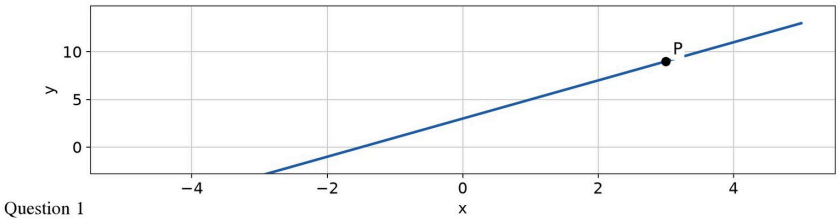
MANITOBA PRE-CALCULUS MATHEMATICS 30S · UNIT D · 25 QUESTIONS

Sequences and Series — 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 **The graph shows y = 2x + 3 . The value of f(3) is**



Question 1

The graph shows $y = 2x + 3$. The value of $f(3)$ is

ANSWER

Understand It with Pulse | Flag a mistake

2 **Solve for x. The value of x is 3x + 11 = 26**

ANSWER

Understand It with Pulse | Flag a mistake

3 **Evaluate a x + b when a = 3 , b = 4 , and x = 2 . The result is**

ANSWER

Understand It with Pulse | Flag a mistake

4 **Two numbers add to 26 and subtract to 6. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Expand the product of x plus 4 and x plus 7. The coefficient of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

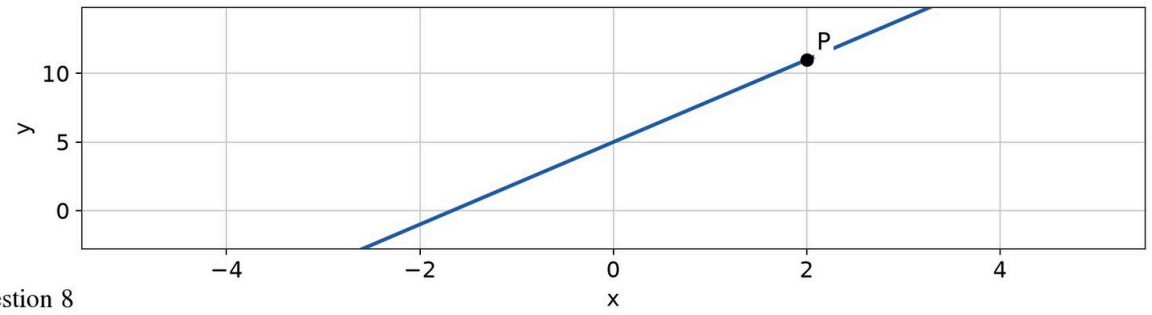
Understand It with Pulse | Flag a mistake

7 **A line passes through (4, 6) and (5, 8). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The graph shows y = 3x + 5 . The value of f(2) is**



Question 8

The graph shows $y = 3x + 5$. The value of $f(2)$ is

ANSWER

Understand It with Pulse | Flag a mistake

9 **Solve for x. The value of x is 4x + 2 = 38**

ANSWER

Understand It with Pulse | Flag a mistake

10 **Evaluate a x + b when a = 3 , b = 7 , and x = 9 . The result is**

ANSWER

Understand It with Pulse | Flag a mistake

11 **Two numbers add to 30 and subtract to 2. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **Expand the product of x plus 5 and x plus 7. The coefficient of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **An arithmetic sequence starts at 11 and increases by 2 each term. Term 9 is**

ANSWER _____

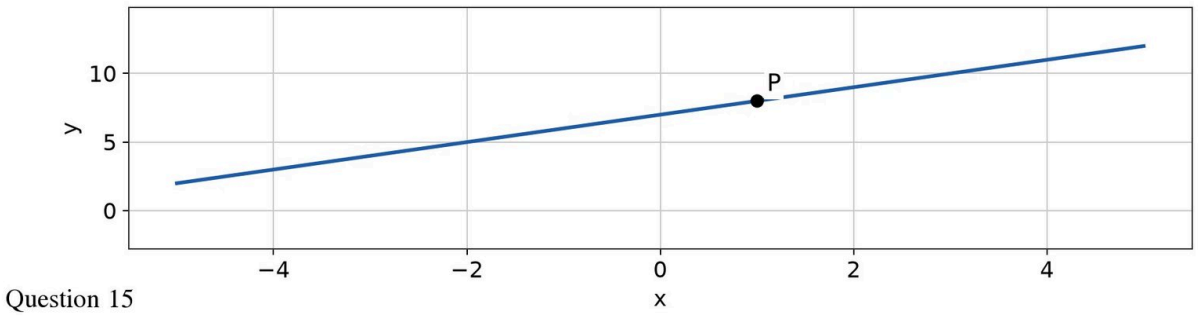
Understand It with Pulse | Flag a mistake

14 **A line passes through (5, 9) and (9, 25). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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



Question 15

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

ANSWER

Understand It with Pulse | Flag a mistake

16 The point where a graph crosses the x axis is the

A y intercept

B vertex

C origin

D x intercept

Understand It with Pulse | Flag a mistake

17 **The highest or lowest point of a parabola is the**

A vertex

B intercept

C axis

D root

Understand It with Pulse | Flag a mistake

18 **The line that divides a parabola into two equal halves is the**

A directrix

B axis of symmetry

C asymptote

D tangent

Understand It with Pulse | Flag a mistake

19 **A triangle with all sides equal is**

A isosceles

B scalene

C equilateral

D right

Understand It with Pulse | Flag a mistake

20 **A triangle with two sides equal is**

A equilateral

B scalene

C obtuse

D isosceles

Understand It with Pulse | Flag a mistake

21 **A triangle with no sides equal is**

A scalene

B isosceles

C equilateral

D right

Understand It with Pulse | Flag a mistake

22 **The longest side of a right triangle is the**

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

23 **In a right triangle, the side opposite the right angle is the**

- A adjacent
- B opposite side
- C hypotenuse
- D base

Understand It with Pulse | Flag a mistake

24 **The sum of the interior angles of a triangle is**

- A 90 degrees
- B 270 degrees
- C 360 degrees
- D 180 degrees

Understand It with Pulse | Flag a mistake

25 **The sum of the interior angles of a quadrilateral is**

A 360 degrees

B 180 degrees

C 270 degrees

D 540 degrees

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	9	**10.**	34	**19.**	C
2.	5	**11.**	16	**20.**	D
3.	10	**12.**	12	**21.**	A
4.	16	**13.**	27	**22.**	B
5.	11	**14.**	4	**23.**	C
6.	44	**15.**	8	**24.**	D
7.	2	**16.**	D	**25.**	A
8.	11	**17.**	A		
9.	9	**18.**	B		

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