MANITOBA INTRODUCTION TO APPLIED AND PRE-CALCULUS MATHEMATICS 20S · UNIT C · 25 QUESTIONS

Factors and Products — 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 9x + 19 = 127**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An arithmetic sequence starts at 4 and increases by 5 each term. Term 10 is**

ANSWER _____

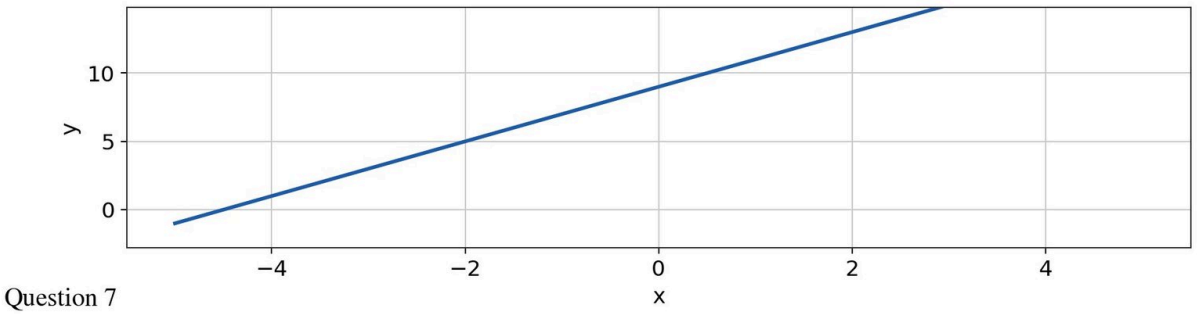
Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The graph shows y = 2x + 9 . The value of f(4) is**



Question 7

The graph shows $y = 2x + 9$. The value of $f(4)$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Solve for x. The value of x is 2x + 10 = 20**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Two numbers add to 14 and subtract to 8. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **An arithmetic sequence starts at 6 and increases by 2 each term. Term 5 is**

ANSWER

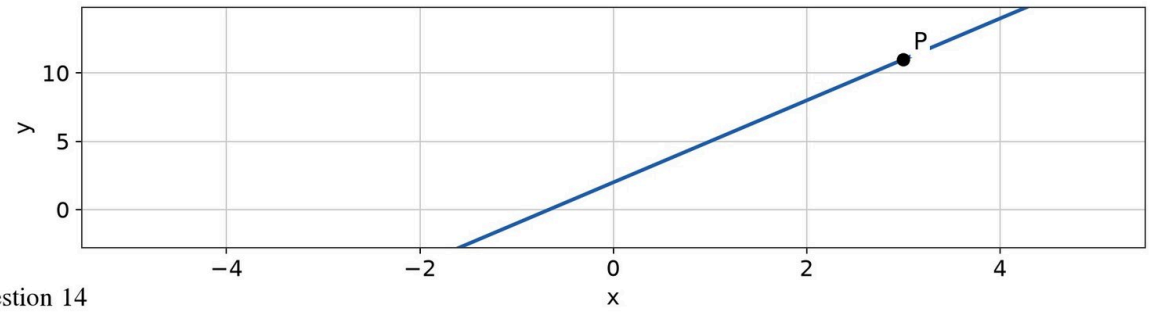
Understand It with Pulse | Flag a mistake

13 **A line passes through (1, 7) and (3, 9). Its slope is**

ANSWER

Understand It with Pulse | Flag a mistake

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



Question 14

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

ANSWER

Understand It with Pulse | Flag a mistake

15 **Solve for x. The value of x is 3x + 1 = 28**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Two lines that never meet are**

A perpendicular

B intersecting

C parallel

D coincident

Understand It with Pulse | Flag a mistake

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

A parallel

B coincident

C skew

D perpendicular

Understand It with Pulse | Flag a mistake

18 **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

19 **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

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

A intercept

B axis

C vertex

D root

Understand It with Pulse | Flag a mistake

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

A directrix

B asymptote

C tangent

D axis of symmetry

Understand It with Pulse | Flag a mistake

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

A equilateral

B isosceles

C scalene

D right

Understand It with Pulse | Flag a mistake

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

A equilateral

B isosceles

C scalene

D obtuse

Understand It with Pulse | Flag a mistake

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

A isosceles

B equilateral

C scalene

D right

Understand It with Pulse | Flag a mistake

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

A adjacent

B opposite

C leg

D hypotenuse

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	12	**10.**	11	**19.**	B
2.	35	**11.**	11	**20.**	C
3.	11	**12.**	14	**21.**	D
4.	10	**13.**	1	**22.**	A
5.	49	**14.**	11	**23.**	B
6.	4	**15.**	9	**24.**	C
7.	17	**16.**	C	**25.**	D
8.	5	**17.**	D		
9.	31	**18.**	A		

© 2026 Brett Robbins. All Rights Reserved.