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

Linear Systems — 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 $4x + 12 = 32$**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Two numbers add to 14 and subtract to 2. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER

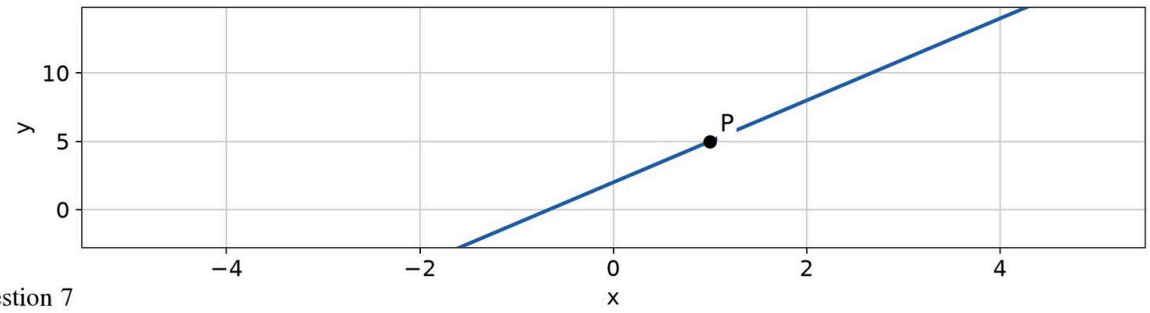
Understand It with Pulse | Flag a mistake

6 **A line passes through (1, 7) and (5, 11). Its slope is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **The graph shows y = 3x + 2 . The value of f(1) is**



Question 7

The graph shows $y = 3x + 2$. The value of $f(1)$ is

ANSWER

Understand It with Pulse | Flag a mistake

8 **Solve for x. The value of x is 5x + 3 = 48**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Evaluate a x + b when a = 7 , b = 13 , and x = 8 . The result is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Two numbers add to 18 and subtract to 12. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Expand the product of x plus 2 and x plus 4. The coefficient of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

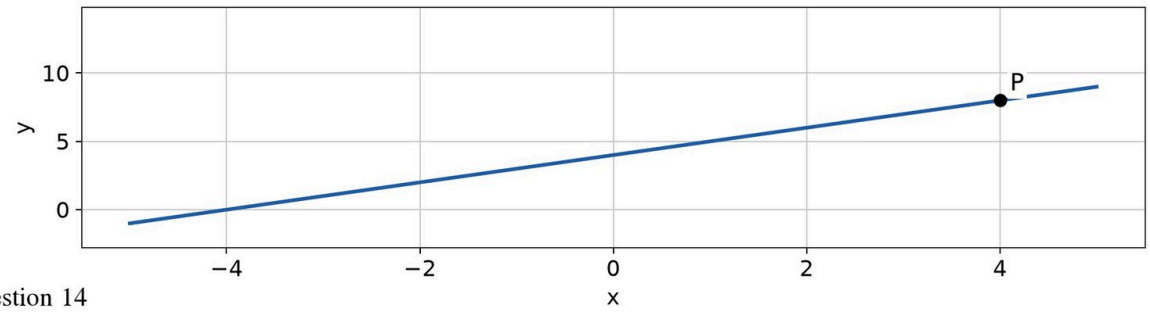
Understand It with Pulse | Flag a mistake

13 **A line passes through (2, 10) and (5, 19). Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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



Question 14

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

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Solve for x. The value of x is 6x + 13 = 25**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

17 **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

18 **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

19 **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

20 **A polygon with five sides is a**

A hexagon

B pentagon

C octagon

D heptagon

Understand It with Pulse | Flag a mistake

21 **A polygon with six sides is a**

A pentagon

B octagon

C hexagon

D decagon

Understand It with Pulse | Flag a mistake

22 **A polygon with eight sides is an**

A hexagon

B pentagon

C decagon

D octagon

Understand It with Pulse | Flag a mistake

23 **The distance around a circle is the**

- A circumference
- B diameter
- C radius
- D area

Understand It with Pulse | Flag a mistake

24 **Half of the diameter of a circle is the**

- A circumference
- B radius
- C chord
- D arc

Understand It with Pulse | Flag a mistake

25 **The ratio of circumference to diameter is**

A two

B three

C pi

D the radius

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	5	**10.**	15	**19.**	A
2.	73	**11.**	6	**20.**	B
3.	8	**12.**	33	**21.**	C
4.	11	**13.**	3	**22.**	D
5.	14	**14.**	8	**23.**	A
6.	1	**15.**	2	**24.**	B
7.	5	**16.**	B	**25.**	C
8.	9	**17.**	C		
9.	69	**18.**	D		

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