MANITOBA PRE-CALCULUS MATHEMATICS 40S · UNIT F · 25 QUESTIONS

Radical and Rational Functions — 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 3x + 18 = 51**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Two numbers add to 14 and subtract to 6. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Expand the product of x plus 4 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 5 each term. Term 8 is**

ANSWER

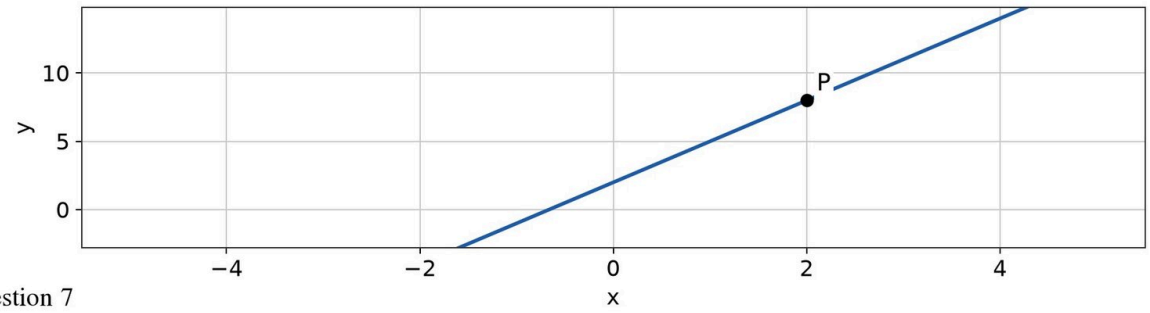
Understand It with Pulse | Flag a mistake

6 **A line passes through (1, 2) and (2, 3). Its slope is**

ANSWER

Understand It with Pulse | Flag a mistake

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



Question 7

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

ANSWER

Understand It with Pulse | Flag a mistake

8 **Solve for x. The value of x is 4x + 9 = 25**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Two numbers add to 18 and subtract to 2. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Expand the product of x plus 5 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 2 each term. Term 9 is**

ANSWER

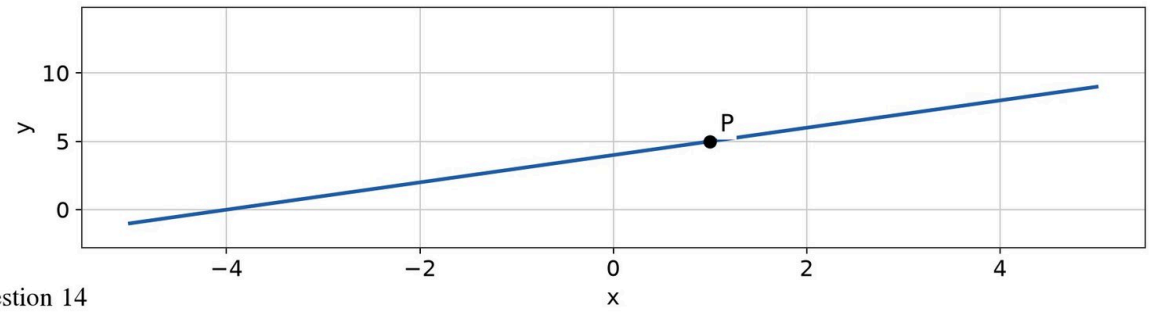
Understand It with Pulse | Flag a mistake

13 **A line passes through (2, 5) and (6, 17). Its slope is**

ANSWER

Understand It with Pulse | Flag a mistake

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



Question 14

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

ANSWER

Understand It with Pulse | Flag a mistake

15 **Solve for x. The value of x is 5x + 19 = 59**

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.	11	**10.**	10	**19.**	A
2.	24	**11.**	9	**20.**	B
3.	10	**12.**	24	**21.**	C
4.	8	**13.**	3	**22.**	D
5.	41	**14.**	5	**23.**	A
6.	1	**15.**	8	**24.**	B
7.	8	**16.**	B	**25.**	C
8.	4	**17.**	C		
9.	76	**18.**	D		

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