MANITOBA APPLIED MATHEMATICS 30S · FINAL EXAM · 50 QUESTIONS

Final Exam — Practice Test

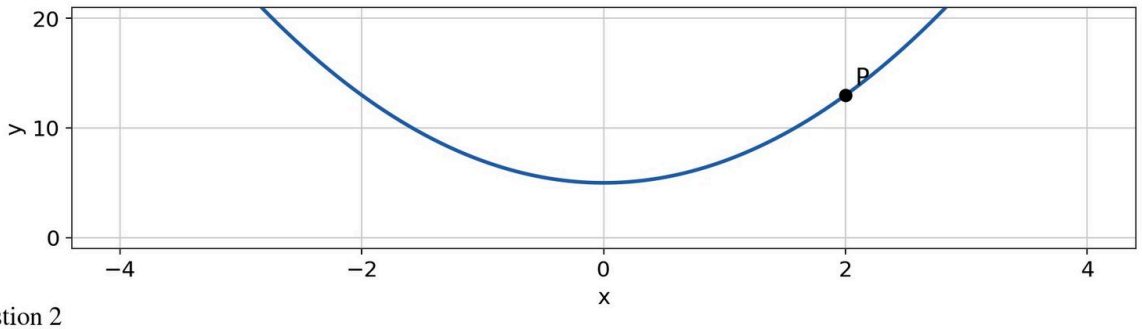
This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A team earns 3 points for a win and 1 point for a draw. With 5 wins and 3 draws, its points total is**

ANSWER

Understand It with Pulse | Flag a mistake

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



Question 2

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

ANSWER

Understand It with Pulse | Flag a mistake

3 **The right triangle shown has its base and height labelled. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A ladder reaches a wall forming a right triangle with base 16 and height 30. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The number of possible outcomes when flipping a coin 3 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The median of 4, 6, 9, 11, and 13 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A puzzle asks for the sum of 6 and the product of 6 and 5. That total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Let f(x) = 4x + 4 . The inverse function at 40 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A rectangular prism has length 7, width 7, and height 2. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An angle measuring 90 degrees is a**

A acute angle

B right angle

C obtuse angle

D straight angle

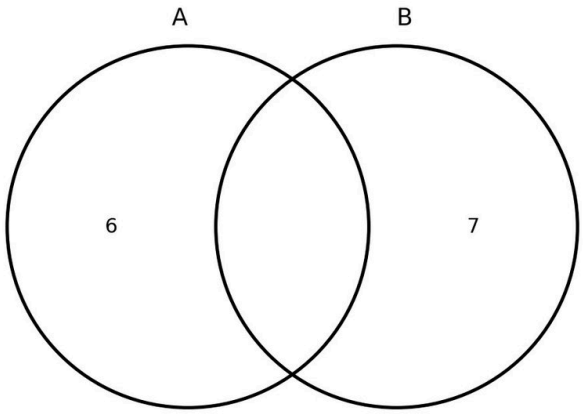
Understand It with Pulse | Flag a mistake

11 **The number of ordered pairs that can be formed from 6 different items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The Venn diagram shows 6 in A only and 7 in B only. There are 15 in total. The number in both sets is**



Question 12

The Venn diagram shows 6 in A only and 7 in B only. There are 15 in total. The number in both sets is

ANSWER

Understand It with Pulse | Flag a mistake

13 **The number of ordered pairs that can be formed from 4 different items is**

ANSWER

Understand It with Pulse | Flag a mistake

14 **Let f(x) = 4x + 5 and g(x) = 3x + 5 . The value of f(g(4)) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A triangle has base 4 and height 4. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **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

17 **The number of possible outcomes when flipping a coin 4 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A bag has 4 red balls out of 10 balls in total. The probability of drawing red, as a percent, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **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

20 A straight line graph has a slope that is

Question 20

A straight line graph has a slope that is

A) increasing

B) constant

C) zero always

D) undefined always

- A increasing
- B constant
- C zero always
- D undefined always

Understand It with Pulse | Flag a mistake

21 The distance around a circle is the

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

Understand It with Pulse | Flag a mistake

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

A pi

B two

C three

D the radius

Understand It with Pulse | Flag a mistake

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

A isosceles

B equilateral

C scalene

D right

Understand It with Pulse | Flag a mistake

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

A hexagon

B pentagon

C decagon

D octagon

Understand It with Pulse | Flag a mistake

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

A zero

B undefined

C one

D negative

Understand It with Pulse | Flag a mistake

26 The point where a graph crosses the y axis is the

Question 26

The point where a graph crosses the y axis is the

A) x intercept

B) vertex

C) y intercept

D) origin

- A x intercept
- B vertex
- C y intercept
- D origin

Understand It with Pulse | Flag a mistake

27 A triangle with two sides equal is

- A equilateral
- B isosceles
- C scalene
- D obtuse

Understand It with Pulse | Flag a mistake

28 **In a right triangle with opposite 1 and hypotenuse 2, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A hexagon

B octagon

C heptagon

D pentagon

Understand It with Pulse | Flag a mistake

30 **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

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

Question 31

The point where a graph crosses the x axis is the

A) y intercept

B) x intercept

C) vertex

D) origin

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

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

- A isosceles
- B scalene
- C equilateral
- D right

Understand It with Pulse | Flag a mistake

33 **A triangle has base 4 and height 6. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A right triangle has hypotenuse 34 and one leg 16. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **An arithmetic pattern starts at 3 and increases by 6. Term 7 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **The mean of 5, 7, 9, and 11 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A puzzle asks for the sum of 6 and the product of 6 and 2. That total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **Let f(x) = 6x + 6 . The inverse function at 30 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A triangle has base 12 and height 7. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **A right triangle has legs 15 and 36. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A team earns 3 points for a win and 1 point for a draw. With 4 wins and 1 draws, its points total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **A data set ranges from 7 to 22. Its range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **The number of ordered pairs that can be formed from 5 different items is**

ANSWER

Understand It with Pulse | Flag a mistake

44 **Let f(x) = 5x + 3 and g(x) = 2x + 3 . The value of f(g(3)) is**

ANSWER

Understand It with Pulse | Flag a mistake

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

A circumference

B radius

C chord

D arc

Understand It with Pulse | Flag a mistake

46 **The value of tan 45 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **The middle value of an ordered data set is the**

A mean

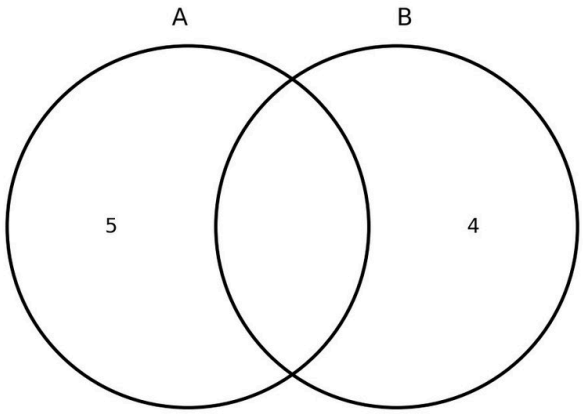
B mode

C range

D median

Understand It with Pulse | Flag a mistake

48 **The Venn diagram shows 5 in A only and 4 in B only. There are 14 in total. The number in both sets is**



Question 48

The Venn diagram shows 5 in A only and 4 in B only. There are 14 in total. The number in both sets is

ANSWER

Understand It with Pulse | Flag a mistake

49 **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

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

A hexagon

B pentagon

C octagon

D decagon

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	18	**18.**	40	**35.**	39
2.	13	**19.**	C	**36.**	8
3.	12	**20.**	B	**37.**	18
4.	34	**21.**	A	**38.**	4
5.	8	**22.**	A	**39.**	42
6.	9	**23.**	C	**40.**	39
7.	36	**24.**	D	**41.**	13
8.	9	**25.**	B	**42.**	15
9.	98	**26.**	C	**43.**	20
10.	B	**27.**	B	**44.**	48
11.	30	**28.**	0.5	**45.**	B
12.	2	**29.**	D	**46.**	1
13.	12	**30.**	A	**47.**	D
14.	73	**31.**	B	**48.**	5
15.	8	**32.**	C	**49.**	D
16.	A	**33.**	12	**50.**	A
17.	16	**34.**	30		

© 2026 Brett Robbins. All Rights Reserved.