NEWFOUNDLAND AND LABRADOR MATHEMATICS 3201 · 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 saver deposits 200 dollars each month for 12 months. The total deposited is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A counterexample to the statement Every square has a side length greater than 5 is**

A. 3

B. 7

C. a square of side length 3

D. 11

Understand It with Pulse | Flag a mistake

3 **P(7, 4) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **If $f(x) = 1x^2 + 5x + 6$, then the remainder when f(x) is divided by x - 2 is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **$\log_{10} 100$ is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **A vehicle price of 18000 dollars plus a documentation fee of 500 dollars gives a subtotal of, in dollars**

ANSWER

Understand It with Pulse | Flag a mistake

7 **A statement that is always true, such as A number is either even or odd , is a**

A contradiction

B counterexample

C conjecture

D tautology

Understand It with Pulse | Flag a mistake

8 **Drawing two cards without replacement gives events that are**

A independent

B mutually exclusive

C complementary

D dependent

Understand It with Pulse | Flag a mistake

9 **An odd degree polynomial with a positive leading coefficient falls to the left and**

- **A** falls to the right
- **B** rises to the left
- **C** is horizontal
- **D** rises to the right

Understand It with Pulse | Flag a mistake

10 **A population of 1200 grows at 5 percent per year. After 3 years it is, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A loan is repaid in 48 monthly payments of 275 dollars. The total repaid is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **If P is false and Q is false, then the statement P Rightarrow Q is**

A false

B sometimes true

C true

D undefined

Understand It with Pulse | Flag a mistake

13 **If the probability of an event is 0.4 , then the probability it does not happen is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **An even degree polynomial with a negative leading coefficient falls to the left and**

A rises to the right

B rises to the left

C falls to the right

D is horizontal

Understand It with Pulse | Flag a mistake

15 **A right triangle has legs 3 and 4 . Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A purchase of 2500 dollars is subject to 15 percent sales tax. The total cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **If P is false and Q is false, then P or Q is**

A true

B sometimes true

C undefined

D false

Understand It with Pulse | Flag a mistake

18 **A game pays 200 dollars with probability 0.05 . Its expected value is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **If f(x) = 1x² + 7x + 10 , then the remainder when f(x) is divided by x - 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A tower casts a shadow and the angle of elevation of the sun is 45° . If the shadow is 45 metres long, the tower height is, in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A vehicle costs 12000 dollars and has a salvage value of 2000 dollars after 4 years. Straight line depreciation per year is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The contrapositive of the statement If a number is prime and greater than 2, then it is odd is**

A If the grass is wet, then it rains

B If a number is not odd, then it is not prime OR not greater than 2

C If it does not rain, then the grass is not wet

D It rains or the grass is wet

Understand It with Pulse | Flag a mistake

23 **A fair coin is tossed 6 times. The number of possible sequences of heads and tails is**

ANSWER

Understand It with Pulse | Flag a mistake

24 **The degree of the polynomial $2x^4 - x^2 + 9$ is**

A 4

B 2

C 3

D 9

Understand It with Pulse | Flag a mistake

25 **The period of y = cos(3x) is**

A 2π

B 2π/3

C π/2

D π

Understand It with Pulse | Flag a mistake

26 **A purchase of 400 dollars is subject to 15 percent sales tax. The total cost is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **The converse of the statement If it rains, then the grass is wet is**

A If the grass is wet, then it rains

B If it does not rain, then the grass is not wet

C If the grass is not wet, then it does not rain

D It rains and the grass is wet

Understand It with Pulse | Flag a mistake

28 **Two events that cannot happen at the same time are called**

A mutually exclusive

B independent

C complementary

D dependent

Understand It with Pulse | Flag a mistake

29 **If $f(x) = 2x^2 + 7x + 3$, then the remainder when $f(x)$ is divided by $x - 2$ is**

ANSWER

Understand It with Pulse | Flag a mistake

30 **A sample of 640 grams halves every period. After 3 periods, the mass remaining is, in grams**

ANSWER

Understand It with Pulse | Flag a mistake

31 **An investment of 1000 dollars grows at 5 percent per year, compounded annually. After 3 years it is worth, in dollars, to two decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

32 **The inverse of the statement If it rains, then the grass is wet is**

- **A** If it does not rain, then the grass is not wet
- **B** If the grass is wet, then it rains
- **C** If the grass is not wet, then it does not rain
- **D** It rains and the grass is wet

Understand It with Pulse | Flag a mistake

33 **5! is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **If $f(x) = x^2 + 4x + 3$, then the remainder when $f(x)$ is divided by $x + 1$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **In the interval $0° \leq x \leq 360°$, the solutions of $\sin x = 1$ are**

A 0 degrees

B 90 degrees

C 180 degrees

D 270 degrees

Understand It with Pulse | Flag a mistake

36 **Simple interest on 2500 dollars at 4 percent per year for 4 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The next term in the sequence 5, 10, 20, 40 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A die is rolled 120 times. The expected number of sixes is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **$x^2 - 9$ factors as**

A $(x - 3)(x + 3)$

B $(x - 3)^2$

C $(x + 3)^2$

D $(x - 3)(x - 3)$

Understand It with Pulse | Flag a mistake

40 **$\log_2 16$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **An investment of 1500 dollars grows at 6 percent per year, compounded annually. After 2 years it is worth, in dollars, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **The product of the first 4 positive integers is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **P(5, 3) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **$(x^2 + 5x + 6)$ divided by $(x + 2)$ gives a quotient whose constant term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 In a right triangle with opposite side 3 and adjacent side 4 , tan θ is

- A 4/3
- B 3/4
- C 3/5
- D 4/5

Understand It with Pulse | Flag a mistake

46 Rent is 950 dollars per month. The total rent over 6 months is, in dollars

ANSWER _____

Understand It with Pulse | Flag a mistake

47 The sum of the first 20 positive integers is

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **Odds of 2 to 3 in favour of an event mean the probability of the event is**

- A 3/5
- B 2/3
- C 2/5
- D 1/2

Understand It with Pulse | Flag a mistake

49 **The vertex of $y = 2(x - 1)^2 + 5$ has y coordinate**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **A quantity of 400 grows at 10 percent per year. After 2 years it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	2400	**18.**	10	**35.**	B
2.	C	**19.**	28	**36.**	400
3.	840	**20.**	45	**37.**	80
4.	20	**21.**	2500	**38.**	20
5.	2	**22.**	B	**39.**	A
6.	18500	**23.**	64	**40.**	4
7.	D	**24.**	A	**41.**	1685.4
8.	D	**25.**	B	**42.**	24
9.	D	**26.**	460	**43.**	60
10.	1389.15	**27.**	A	**44.**	3
11.	13200	**28.**	A	**45.**	B
12.	C	**29.**	25	**46.**	5700
13.	0.6	**30.**	80	**47.**	210
14.	C	**31.**	1157.63	**48.**	C
15.	5	**32.**	A	**49.**	5
16.	2875	**33.**	120	**50.**	484
17.	D	**34.**	0		

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