NOVA SCOTIA PRE-CALCULUS 11 · 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 **The absolute value of -10 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The square of the square root of 11 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An angle of 400 degrees has a coterminal angle between 0 and 360 degrees of**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Solve $x^2 - 7x + 6 = 0$. The larger root is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An arithmetic sequence starts at 8 with difference 3. The second term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The graph of y = |x| has shape**

A A V shape

B A straight line

C A U shape

D A circle

Understand It with Pulse | Flag a mistake

7 **Simplifying $\frac{x^2}{x}$, for x not 0 , gives**

- **A** $\frac{1}{x}$
- **B** 0
- **C** x
- **D** x^2

Understand It with Pulse | Flag a mistake

8 **A straight angle measures**

- **A** 90 degrees
- **B** 180 degrees
- **C** 360 degrees
- **D** 45 degrees

Understand It with Pulse | Flag a mistake

9 **Completing the square for $x^2 + 6x$ gives x plus 3^2 minus**

A 3

B 9

C 36

D 6

Understand It with Pulse | Flag a mistake

10 **An arithmetic sequence with first term 4 and difference 3 has third term**

A 7

B 13

C 4

D 10

Understand It with Pulse | Flag a mistake

11 **The equation |x| = -2 has**

A One solution

B Two solutions

C Infinite solutions

D No solution

Understand It with Pulse | Flag a mistake

12 **Solve square root of x = 3 . The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **An angle of 450 degrees has a coterminal angle between 0 and 360 degrees of**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **If the discriminant is less than zero, a quadratic has**

A One real root

B Three roots

C No real roots

D Two real roots

Understand It with Pulse | Flag a mistake

15 **The common ratio of 3, 6, 12, 24 is**

A 3

B 6

C 2

D 12

Understand It with Pulse | Flag a mistake

16 **The absolute value of 8 minus 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **The square root of 49 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A coterminal angle of 100 degrees found by adding 360 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Solve $x^2 - 4x + 4 = 0$. The larger root is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The reciprocal of a linear function has asymptotes where the linear function is**

A Maximum only

B Zero

C Minimum only

D Positive only

Understand It with Pulse | Flag a mistake

21 **The vertex of y = absolute value of x - 4 is at x =**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The square root of 64 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An angle of 160 degrees has reference angle, in degrees, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **For $x^2 + 10x + 25 = 0$, the discriminant is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **An arithmetic sequence starts at 12 with difference 5. The second term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 The equation |x| = 5 has a positive solution . That solution is

- A 5
- B 6
- C 4
- D 7

Understand It with Pulse | Flag a mistake

27 The square root of 121 is

ANSWER _____

Understand It with Pulse | Flag a mistake

28 An angle of 210 degrees has reference angle, in degrees, of

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **For $x^2 + 8x + 16 = 0$, the discriminant is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **An arithmetic sequence starts at 4 with common difference 3. Term number 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **The vertex of y = absolute value of x - 3 is at x =**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **The square root of 4 multiplied by 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Half of 180 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **Solve $x^2 - 5x + 6 = 0$. The larger root is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **An arithmetic sequence starts at 7 with common difference 1. Term number 8 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **For $f(x) = |x - 9|$, the value at $x = 3$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The square root of 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **An angle of 315 degrees has reference angle, in degrees, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **Solve $x^2 - 4x + 4 = 0$. The smaller root is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **A geometric sequence starts at 2 with common ratio 3. Term number 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **The largest solution of |x| = 9 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **An extraneous solution is a solution that**

A Is always zero

B Does not satisfy the original equation

C Has no value

D Is always correct

Understand It with Pulse | Flag a mistake

43 **In quadrant 2, sine is**

- A Negative
- B Zero
- C Undefined
- D Positive

Understand It with Pulse | Flag a mistake

44 **The solution of x^2 less than 4 includes x =**

- A 3
- B -3
- C 5
- D 0

Understand It with Pulse | Flag a mistake

45 **A geometric sequence starts at 6 with common ratio 2. Term number 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **For f(x) = |x - 8| , the value at x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **The square root of 16 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **The sine of 90 degrees is**

A 0

B One half

C 1

D -1

Understand It with Pulse | Flag a mistake

49 **Solve $x^2 - 7x + 12 = 0$. The larger root is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **An arithmetic sequence starts at 10 with common difference 2. Term number 7 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	10	**18.**	460	**35.**	14
2.	11	**19.**	2	**36.**	6
3.	40	**20.**	B	**37.**	2
4.	6	**21.**	4	**38.**	45
5.	11	**22.**	8	**39.**	2
6.	A	**23.**	20	**40.**	162
7.	C	**24.**	0	**41.**	9
8.	B	**25.**	17	**42.**	B
9.	B	**26.**	A	**43.**	D
10.	D	**27.**	11	**44.**	D
11.	D	**28.**	30	**45.**	48
12.	9	**29.**	0	**46.**	4
13.	90	**30.**	16	**47.**	4
14.	C	**31.**	3	**48.**	C
15.	C	**32.**	10	**49.**	4
16.	6	**33.**	90	**50.**	22
17.	7	**34.**	3		

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