NOVA SCOTIA PRE-CALCULUS 12 · UNIT B · 25 QUESTIONS

Radical and Polynomial 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 square root of x = 2 , giving x .**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Solve square root of x = 3 , giving x .**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Solve square root of x = 4 , giving x .**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Solve square root of x = 5 , giving x .**

ANSWER _____

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5 **Solve square root of x = 6 , giving x .**

ANSWER _____

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6 **Solve square root of x = 7 , giving x .**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Solve square root of x = 8 , giving x .**

ANSWER _____

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8 **Solve square root of x = 9 , giving x .**

ANSWER _____

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9 **Solve square root of x = 10 , giving x .**

ANSWER

Understand It with Pulse | Flag a mistake

10 **Solve square root of x = 11 , giving x .**

ANSWER

Understand It with Pulse | Flag a mistake

11 **Solve square root of x = 12 , giving x .**

ANSWER

Understand It with Pulse | Flag a mistake

12 **Solve square root of x = 13 , giving x .**

ANSWER

Understand It with Pulse | Flag a mistake

13 **Solve square root of x = 14 , giving x .**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Solve square root of x = 15 , giving x .**

ANSWER _____

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15 **What is the square root of $9x^2$ when x is at least 0?**

A 3x

B 9x

C $3x^2$

D 9 × the square root of x

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16 **To solve square root of x = 5 , you**

A take a square root again

B square both sides

C divide by 5

D multiply by 5

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17 **An extraneous solution is a solution that appears during solving but**

A is larger than expected

B is negative

C does not satisfy the original equation

D is a fraction

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18 **The domain of y = square root of x is**

A all real numbers

B x less than 0

C x greater than 0 only

D x greater than or = 0

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19 **The graph of y = square root of x starts at**

A the origin and rises slowly

B negative infinity

C the point 1, 1 only

D a maximum

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20 **A polynomial function of degree 3 can have at most**

A 1 real zero

B 3 real zeros

C 4 real zeros

D 2 real zeros

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21 **The remainder when a polynomial P is divided by x minus 2 is**

A P of 0

B P of -2

C P of 2

D 0

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22 **If P of 3 equals 0, then x minus 3 is**

A the degree of P

B the remainder

C the leading term

D a factor of P

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23 **A double root touches the x axis and**

A does not cross it

B crosses it twice

C jumps over it

D ends the graph

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24 **The leading coefficient of negative $x^3 + 2x$ is**

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

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25 **The end behaviour of negative x^3 is : as x grows large , y goes to**

- A positive infinity
- B zero
- C negative infinity
- D 1

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	4	**10.**	121	**19.**	A
2.	9	**11.**	144	**20.**	B
3.	16	**12.**	169	**21.**	C
4.	25	**13.**	196	**22.**	D
5.	36	**14.**	225	**23.**	A
6.	49	**15.**	A	**24.**	B
7.	64	**16.**	B	**25.**	C
8.	81	**17.**	C		
9.	100	**18.**	D		

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