NOVA SCOTIA PRE-CALCULUS 11 · UNIT E · 25 QUESTIONS

Arithmetic and Geometric Sequences and Reciprocal 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 **A geometric sequence starts at 2 with common ratio 2. Term number 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The reciprocal function value at x = 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An arithmetic sequence starts at 2 with difference 3. The sum of the first 4 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A geometric sequence with first term 2 and ratio 3 has third term**

A 18

B 6

C 12

D 9

Understand It with Pulse | Flag a mistake

7 **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

8 **In a geometric sequence, consecutive terms differ by a**

A Constant ratio

B Constant sum

C Constant product

D Constant difference

Understand It with Pulse | Flag a mistake

9 **In an arithmetic sequence, consecutive terms differ by a**

- **A** Constant ratio
- **B** Constant sum
- **C** Constant product
- **D** Constant difference

Understand It with Pulse | Flag a mistake

10 **The common difference of 5, 9, 13, 17 is**

- **A** 5
- **B** 4
- **C** 2
- **D** 9

Understand It with Pulse | Flag a mistake

11 The common ratio of 3, 6, 12, 24 is

- A 3
- B 6
- C 2
- D 12

Understand It with Pulse | Flag a mistake

12 The graph of $y = \frac{1}{x}$ has a horizontal asymptote at

- A $y = 0$
- B $y = 1$
- C $x = 0$
- D $x = 1$

Understand It with Pulse | Flag a mistake

13 The graph of $y = \frac{1}{x}$ has a vertical asymptote at

A $y = 0$

B $y = 1$

C $x = 0$

D $x = 1$

Understand It with Pulse | Flag a mistake

14 The reciprocal function $\frac{1}{x}$ is undefined at x equals

A -1

B 0

C 2

D 1

Understand It with Pulse | Flag a mistake

15 **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

16 **The sum of the first 5 positive integers , using n(n + 1) / 2 , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A geometric sequence starts at 3 with common ratio 2. Term number 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **An arithmetic sequence starts at 1 with common difference 2. Term number 6 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The reciprocal function value at x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An arithmetic sequence starts at 5 with difference 2. The sum of the first 5 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A geometric sequence starts at 1 with common ratio 3. Term number 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An arithmetic sequence starts at 20 with difference 4. The second term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The reciprocal function value at x = 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	32	**10.**	B	**19.**	17
2.	23	**11.**	C	**20.**	0.25
3.	11	**12.**	A	**21.**	45
4.	0.5	**13.**	C	**22.**	27
5.	26	**14.**	B	**23.**	16
6.	A	**15.**	B	**24.**	24
7.	D	**16.**	15	**25.**	0.2
8.	A	**17.**	24		
9.	D	**18.**	11		

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