Discrete Functions — Practice Test

Ontario Functions, Grade 11, University Preparation (MCR3U) • 25 questions

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 **An arithmetic sequence has first term 3 and common difference 4 Its sixth term is**

- A 19
- B 27
- C 24
- D 23

Understand It with Pulse | Flag a mistake

2 **An arithmetic sequence has first term 5 and common difference 2 Its sixth term is**

A 13

B 17

C 16

D 15

Understand It with Pulse | Flag a mistake

3 **An arithmetic sequence has first term 2 and common difference 5 Its sixth term is**

A 22

B 32

C 28

D 27

Understand It with Pulse | Flag a mistake

4 **An arithmetic sequence starts at 5 with common difference 3. Its 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A geometric sequence has first term 2 and common ratio 3 Its fourth term is**

A 54

B 18

C 162

D 55

Understand It with Pulse | Flag a mistake

6 **A geometric sequence has first term 3 and common ratio 2 Its fourth term is**

- A 24
- B 12
- C 48
- D 25

Understand It with Pulse | Flag a mistake

7 **A geometric sequence has first term 5 and common ratio 2 Its fourth term is**

- A 20
- B 80
- C 40
- D 41

Understand It with Pulse | Flag a mistake

8 **A geometric sequence starts at 2 with common ratio 3. Its 4th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **An arithmetic series has first term 2 and common difference 3 The sum of its first 5 terms is**

A 45

B 35

C 40

D 43

Understand It with Pulse | Flag a mistake

10 An arithmetic series has first term 4 and common difference 2 The sum of its first 5 terms is

- A 45
- B 35
- C 42
- D 40

Understand It with Pulse | Flag a mistake

11 An arithmetic series has first term 1 and common difference 5 The sum of its first 5 terms is

- A 60
- B 50
- C 66
- D 55

Understand It with Pulse | Flag a mistake

12 **The sum of the first 5 terms of an arithmetic series with first term 2 and common difference 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A geometric series has first term 2 and common ratio 2 The sum of its first 4 terms is**

A 32

B 28

C 41

D 30

Understand It with Pulse | Flag a mistake

14 **A geometric series has first term 3 and common ratio 3 The sum of its first 4 terms is**

- A 123
- B 120
- C 117
- D 131

Understand It with Pulse | Flag a mistake

15 **A geometric series has first term 1 and common ratio 2 The sum of its first 4 terms is**

- A 16
- B 14
- C 15
- D 17

Understand It with Pulse | Flag a mistake

16 **The sum of the first 4 terms of a geometric series with first term 3 and common ratio 2 is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **An arithmetic sequence has first term 10 and common difference -2 Its fifth term is**

A 4

B 2

C 0

D 13

Understand It with Pulse | Flag a mistake

18 **An arithmetic sequence has first term 20 and common difference -3 Its fifth term is**

- A 11
- B 5
- C 10
- D 8

Understand It with Pulse | Flag a mistake

19 **An arithmetic sequence has first term 15 and common difference -2 Its fifth term is**

- A 9
- B 5
- C 7
- D 18

Understand It with Pulse | Flag a mistake

20 The 5th term of the arithmetic sequence 10, 8, 6, 4, ... is

ANSWER _____

Understand It with Pulse | Flag a mistake

21 A geometric sequence has first term 81 and each term is divided by 3 to get the next term. Its third term is

A 9

B 27

C 3

D 12

Understand It with Pulse | Flag a mistake

22 **A geometric sequence has first term 64 and each term is divided by 4 to get the next term. Its third term is**

- A 16
- B 1
- C 4
- D 8

Understand It with Pulse | Flag a mistake

23 **A geometric sequence has first term 125 and each term is divided by 5 to get the next term. Its third term is**

- A 25
- B 5
- C 1
- D 10

Understand It with Pulse | Flag a mistake

24 A sequence is defined by $t_1 = 4$ and $t_n = t_{n-1} + 3$ The third term is

- A 7
- B 13
- C 10
- D 11

Understand It with Pulse | Flag a mistake

25 A sequence is defined by $t_1 = 7$ and $t_n = t_{n-1} + 5$ The third term is

- A 12
- B 22
- C 18
- D 17

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	D	**10.**	D	**19.**	C
2.	D	**11.**	D	**20.**	2
3.	D	**12.**	40	**21.**	A
4.	20	**13.**	D	**22.**	C
5.	A	**14.**	B	**23.**	B
6.	A	**15.**	C	**24.**	C
7.	C	**16.**	45	**25.**	D
8.	54	**17.**	B		
9.	C	**18.**	D		

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