

Chapter 10 Quiz Review Answers

1) 2, -2, 2

2) 60, 50, 40

3) 243, -729, 2187

4) $5, \frac{5}{2}, \frac{5}{4}$

5) 26, 37, 50

6) 17, 21, 25

7) 10, 15, 25, 45

8) $0, 1\frac{1}{2}, 2\frac{2}{3}, 3\frac{3}{4}$

9) 5, 7, 9, 11

10) 5, 25, 125, 625

11) 5, 8, 13, 21

12) 2, 6, 9

13) $x = 3$

14) Divergent

15) Convergent

16) Convergent

17) Divergent

18) $\frac{157}{5}, \frac{179}{5}, \frac{201}{5}, \frac{223}{5}$

19) 25

20) 45

21) 102

22) 104

23) $a_n = -4n - 7; a_1 = -11, a_n = a_{n-1} - 4$ for $n \geq 2$

24) $a_n = 12n - 108; a_1 = -96, a_n = a_{n-1} + 12$ for $n \geq 2$

25) $a_n = 3n + 4; a_1 = 7, a_n = a_{n-1} + 3$ for $n \geq 2$

26) $a_n = -2n + 34; a_1 = 32, a_n = a_{n-1} - 2$ for $n \geq 2$

27) 49,320

28) 31,500