

19. $-\frac{1}{4}, \frac{1}{2}, -1, 2, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$ _____
20. $0.1, 0.01, 0.001, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$ _____
21. $\frac{1}{2}, \underline{\hspace{1cm}}, \frac{1}{8}$ _____
22. $2, \underline{\hspace{1cm}}, 72$ _____
23. $-3, 0, \underline{\hspace{1cm}}, 6$ _____
24. $1, 4, \underline{\hspace{1cm}}, 64$ _____
25. $31, 27, 23, \underline{\hspace{1cm}}, 15, \underline{\hspace{1cm}}$ _____
26. $-2, \underline{\hspace{1cm}}, 12, 19, \underline{\hspace{1cm}}, 33$ _____
27. $100, \underline{\hspace{1cm}}, 25, \underline{\hspace{1cm}}, 6.25$ _____
28. $1, 3, 7, 13, \underline{\hspace{1cm}}$ _____
29. $33, 22, \underline{\hspace{1cm}}$ _____
30. $14, \underline{\hspace{1cm}}, -6, \underline{\hspace{1cm}}, -26$ _____

The following sequences are arithmetic, find the missing numbers.

31) $5, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 11, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

32) $9, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 25$

33) $\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 8.5, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 16$

34) $\underline{\hspace{1cm}}, 5, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, -7, \underline{\hspace{1cm}}$

11.1 Sequences Worksheet

Identify each sequence below as arithmetic, geometric, or neither and complete the missing elements.

1. 4, 7, 10, __, __ _____
2. 4, 8, 12, __, __ _____
3. 1, 2, 4, 8, __, __ _____
4. 1, -2, 4, -8, __, __ _____
5. 81, 27, 9, 3, __, __ _____
6. 4, 20, 100, 500, __, __ _____
7. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, __, __ _____
8. 1, 4, 16, __, __ _____
9. 21, 18, 15, 12, __, __ _____
10. 12, 23, 34, 45, __, __ _____
11. $\frac{1}{3}$, $\frac{2}{5}$, $\frac{3}{7}$, $\frac{4}{9}$, __, __ _____
12. 1, 4, 9, 16, __, __ _____
13. $\frac{2}{5}$, $\frac{4}{25}$, $\frac{8}{125}$, __, __ _____
14. 81, -27, 9, __, __ _____
15. 90, -30, 10, __, __ _____
16. -3, -12, -21, __, __ _____
17. 2, 10, 18, 26, __, __ _____
18. 7, 14, 28, 56, __, __ _____