

Key to worksheet on Sequences & Series.

1. $-4, -10, -16, -22, -28$

2. $3, 8, 14, 20, 26$

3. $13, 11, 9, 7, 5$

4. $-19, -12, -5, 2, 9, 16$

5. $a_n = 3 \cdot a_{n-1} - 1 \quad (n \geq 2) \quad a_7 = 2,552$

6. $a_n = n^2 + 7 \quad a_{12} = 151$

7. 141

8. -434

9. 205

10. No

11. Yes ; $d = -8$

12. Yes ; $d = \frac{2}{5}$

13. $a_n = 3n - 10 \quad a_{38} = 104$

14. $a_n = -1.5n + 13.5 \quad a_{55} = -69$

15. $a_n = 4n - 31 \quad a_{9} = 5$

16. $-1,809$

17. $3,379$

18. -513