

## Answers to Sequence 2 WS

- |   |   |   |        |
|---|---|---|--------|
| 1) Yes  | 2) Yes  | 3) Yes  | 4) Yes |
| 5) Yes  | 6) Yes  | 7) Common Difference: $d = -30$<br>Next 3 terms: $-83, -113, -143$    |        |
| 8) Common Difference: $d = -5$<br>Next 3 terms: $-45, -50, -55$   | 9) Common Difference: $d = -10$<br>Next 3 terms: $-15, -25, -35$  |   |        |
| 10) Common Difference: $d = -8$<br>Next 3 terms: $-32, -40, -48$  |   | 11) Common Difference: $d = -100$<br>Next 3 terms: $-420, -520, -620$ |        |
| 12) Common Difference: $d = -2$<br>Next 3 terms: $4, 2, 0$        | 13) Common Difference: $d = -7$<br>Explicit: $a_n = 39 - 7n$      |   |        |
| 14) Common Difference: $d = 200$<br>Explicit: $a_n = -180 + 200n$ |   | 15) Common Difference: $d = 20$<br>Explicit: $a_n = -37 + 20n$        |        |
| 16) Common Difference: $d = 5$<br>Explicit: $a_n = 2 + 5n$        | 17) Common Difference: $d = 100$<br>Explicit: $a_n = -137 + 100n$ |   |        |
| 18) Common Difference: $d = -4$<br>Explicit: $a_n = -8 - 4n$      | 19) $a_{33} = 200$<br>Explicit: $a_n = 35 + 5n$                   | 20) $a_{34} = -6605$<br>Explicit: $a_n = 195 - 200n$                  |        |
| 21) $a_{32} = -47$<br>Explicit: $a_n = 17 - 2n$                   | 22) $a_{33} = 219$<br>Explicit: $a_n = 21 + 6n$                   | 23) $a_{33} = -285$<br>Explicit: $a_n = -21 - 8n$                     |        |
| 24) $a_{32} = 269$<br>Explicit: $a_n = -19 + 9n$                  |   |   |        |