

## Answers to Chapter 11 Review (ID: 1)

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| 1) Common Difference: $d = 3$<br>Explicit: $a_n = -18 + 3n$    | 2) Not arithmetic  | 3) Common Difference: $d = 20$<br>Explicit: $a_n = -3 + 20n$       |
| 4) Common Difference: $d = -2$<br>Explicit: $a_n = 37 - 2n$    | 5) Common Difference: $d = -200$<br>Explicit: $a_n = 232 - 200n$ |  |
| 6) Not arithmetic  | 7) Common Ratio: $r = 5$<br>Explicit: $a_n = 5^{n-1}$            | 8) Common Ratio: $r = 6$<br>Explicit: $a_n = -3 \cdot 6^{n-1}$     |
| 9) Common Ratio: $r = 2$<br>Explicit: $a_n = -4 \cdot 2^{n-1}$ | 10) Common Ratio: $r = 3$<br>Explicit: $a_n = 4 \cdot 3^{n-1}$   | 11) Common Ratio: $r = -5$<br>Explicit: $a_n = 2 \cdot (-5)^{n-1}$ |
| 12) Not geometric  | 13) 285  | 14) 98   |
| 16) 105  | 17) -728   | 18) 39062  |
| 20) 651042   | 21) $256b^4 - 256b^3 + 96b^2 - 16b + 1$                          | 15) 600  |
| 22) $16a^4 - 32a^3b + 24a^2b^2 - 8ab^3 + b^4$                  | 23) $21y^5x^2$   | 19) -252   |
| 25) $-35x^4y^3$  | 26) $16y^8$  | 24) $96n^8$  |
| 29) $21y^8x^{15}$  | 27) $80m^2$  | 28) $672b^{20}a^2$   |
|  | 30) $12y$  |  |