

**SOLUCIONES - PROGRESIONES GEOMÉTRICAS**

1. a) Si $r=2/3$ b) No c) Si $r=5/3$ d) No	12. 8, 4, 2, 1, 1/2, 1/4, 1/8
2. a) 3, 6, 12, 24, 48,... b) 108, 36, 12, 4, 4/3, 4/9,... c) -1, 2, -4, 8, -16, 32,...	13. $P_{15} = (7 \cdot 3 \cdot 5)^{15}$
3. $a_8 = 128$	14. $a_7 = 64$ $P_7 = 8^7 = 2^{21}$
4. $a_{12} = 10^8$	15. $P_8 = 1/81$
5. $a_{10} = 1536$	16. $P_{11} = 2048$
6. $a_8 = 1/16$ $a_6 = 1/4$	17. $S_9 = 3577$
7. $a_1 = 1/3$	18. $S_{15} = \frac{3^{15} - 1}{3^{13}}$
8. $r = 2$ $a_1 = 1/32$	19. $S_{10} = 341/128$
9. $a_8 = 1152$	20. $S = 48/5$
10. $a_6 = 6\sqrt[7]{3^5}$	21. $S = 18$
11. 7, 21, 63, 189, 567, 1701, 50103	22. $S = 2$