

Find the sum.

1. $108+36+12+\dots$ 2. $8+6+\frac{9}{2}+\dots$ 3. $100+200+400+\dots$ 4. $-800-200-50-\dots$

5. $\sum_{n=1}^{\infty} \left(\frac{4}{5}\right)^{n-1}$ 6. $\sum_{n=1}^6 2(0.3)^{n-1}$ 7. $\sum_{n=1}^{\infty} 4(0.6)^{n-1}$ 8. $\sum_{n=3}^{\infty} 96\left(\frac{1}{2}\right)^{n-1}$ 9. $\sum_{p=5}^{14} 2(1.2)^{p-1}$

10. Given a geometric sequence, find r if $S_{\infty} = -90$, and $u_1 = -30$

⑪ Given a geometric sequence, find r if $S_3 = -231.25$, and $u_1 = -100$

12. Given a geometric sequence, find u_1 if $S_{\infty} = 12$ and $r = \frac{1}{4}$

13. Given a geometric sequence, find the first 4 terms if $u_1 = 1$ and $S_{\infty} = 3$

14. Given a geometric sequence, find the first 4 terms if $r = 0.6$ and $S_{\infty} = 70$

15. pg. 528 (1-4)

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