

Endlicher: Geometrische Summen

Bestimmen Sie jede geometrische Reihe konvergenz und divergenz.

(a) $a_1 = -0.5, r = -0.5$

(b) $a_1 = 0.5, r = -\frac{25}{26}$

(c) $a_1 = 0.25, r = 0.01$

(d) $a_1 = 0.5, r = 0.1$

(e) $0.1 + 0.2 + 0.4 + 0.8 + \dots$

(f) $1.1 + 0.7 + 0.45 + 0.3025 + 0.2025 + \dots$

(g) $1 + 2 + \frac{12}{5} + \frac{48}{25} + \frac{192}{625} + \dots$

(h) $\frac{128}{1125} + \frac{64}{625} + \frac{32}{625} + \frac{16}{25} + \dots$

(i) $\sum_{k=0}^{\infty} -0.5^k$

(j) $\sum_{k=0}^{\infty} \frac{100 \cdot 2^k}{3 \cdot 5^{k+1}}$

(k) $\sum_{k=0}^{\infty} 4 \cdot 2^k \cdot 0.5^{k+1}$

(l) $\sum_{k=0}^{\infty} \left[\frac{1}{k!} - \frac{1}{(k+1)!} \right]$

Bestimmen Sie die endliche geometrische Reihe (konvergenz).

(a) $a_1 = 0.5, r = -\frac{1}{2}$

(b) $a_1 = 0.5, r = -0.5$

(c) $a_1 = 0.5, r = 0.1$

(d) $a_1 = 0.5, r = \frac{1}{2}$

Infinite Geometric Series Worksheet

**David Walker, Michael Leonard, Andrew
Metcalf, Martin Lambert**



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Volume of NaOH added (ml)	pH
4	6.4
5	6.5
6	6.5
7	5.9
8	5.5
9	5.9

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