$$28) \sum_{n=0}^{\infty} \frac{2+h}{2} \quad \text{Serie} = 1, \frac{3}{2}, 2, \frac{5}{2}, 3, \infty$$

$$| \text{Vagione} = \frac{1}{2} \quad \text{ad} = 1$$

$$| \text{Sh} = \text{h} \cdot \left(\frac{3}{2} + \frac{2+h}{4}\right) = \text{h} \cdot \left(\frac{1}{2} + \frac{2+h}{4}\right)$$

$$| = \text{h} \cdot \left(\frac{1}{2} + \frac{2+h}{4}\right) = \text{h} \cdot \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2}\right)$$

$$| = \frac{1}{4} \cdot \text{h} \cdot \text{h}$$

3.5)
$$\sum_{h=0}^{+\infty} \left(S_{h} - \frac{3}{2} \widehat{n} \right) \quad \text{Serie} = -\frac{3}{2} \widehat{n}, \quad S - \frac{3}{2} \widehat{n}, \quad 10 - \frac{3}{2} \widehat{n}, \text{ as}$$

$$\mathbf{q} = 5 \quad 24 = -\frac{3}{2} \widehat{n}$$

$$S_{h} = n \left(-\frac{3}{4} \widehat{n} + \left(\frac{5}{2} h - \frac{3}{4} \widehat{n} \right) \right)$$

$$= \frac{1}{2} n \left(\frac{5}{2} h - \frac{3}{2} \widehat{n} \right)$$

$$= \frac{5}{2} n^{2} - \frac{3}{3} n \widehat{n} \quad \lim_{h \to +\infty} \left(\frac{5}{2} n^{2} - \frac{3}{2} n \widehat{n} \right) = 4 \infty$$

$$\text{divergente postivamente}$$

$$\mathbf{q} = \frac{4}{7} \quad 24 = \frac{4}{7}$$

$$S_{h} = \frac{4}{7} \cdot \frac{4}{7} \cdot$$

(2)
$$\sum_{n=1}^{\infty} (-1)^n \cos(2n^n)$$

Seric = -1, 1, -1, -0

indeterminate

(3) $\sum_{n=0}^{\infty} (\frac{2}{3})^{2n}$
 $q = \frac{4}{63}$
 $s = \frac{1}{1 - \frac{4}{17}} = \frac{69}{45}$
 $-1 < q < 1$ Convergente

50) $\sum_{n=0}^{\infty} (\frac{1}{2})^n q = (\frac{1}{6})^n$
 $-1 < q < 1$ Convergente

52) $\sum_{n=0}^{\infty} (4 - \sqrt{8})^n q = (-\sqrt{8})^n$
 $q =$

67)
$$\sum_{n=0}^{+\infty} e^{\frac{2n}{x}} \qquad q = e^{\frac{2}{x}}$$

$$\int_{n=0}^{2} e^{\frac{2}{x}} > -1 \qquad \int_{x < 0} x < 0 \qquad x < 0 \qquad convergente$$

$$\begin{cases} e^{\frac{2}{x}} > -1 & \int_{x < 0} x < 0 \qquad x < 0 \qquad convergente \end{cases}$$

$$\begin{cases} e^{\frac{2}{x}} > -1 & \int_{x < 0} x < 0 \qquad x < 0 \qquad convergente \end{cases}$$

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$$\begin{cases} e^{\frac{2}{x}} > -1 & \int_{x < 0} x < 0 \qquad x$$