1.97

$$C_{n} = \frac{1}{2 \cdot n} = \frac{1}{1 \cdot n}$$

$$C_{n} = \frac{1}{2 \cdot n} = \frac{1}{2} = 0$$

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b)
$$c_{h} = \frac{h-1}{h} = \frac{1}{h} - \frac{1}{4}c = 1 - c = 1$$
 $c_{h} = 1$
 $c_{h} = 1$
 $c_{h} = 1$

$$(n = \frac{2n-1}{n} = \frac{2n}{n} - \frac{4}{n} = \frac{2n}{n} - 0$$

$$(n = 2 \quad \text{where} \quad \text$$

d)
$$C_{n} = \frac{1-3n}{n} = \frac{3}{4} - \frac{3}{4} = -3$$

$$C_{n} = \frac{3}{n} = \frac{3}{4} - \frac{3}{4} = -3$$

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e)
$$C_{h} = \frac{1}{h^{2}} | h^{2}$$

$$C_{h} = \frac{1}{h^{2}} = 0$$

$$C_{h} = \frac{1}{h^{2}} = 0$$

$$C_{h} = 0$$

$$h \neq \infty$$

f)
$$Ch = 2 + \frac{1}{\sqrt{2}} = 2$$

$$Cin = 2$$

$$kenvergen!$$

$$\frac{1+2n^{2}}{3n^{2}} = \frac{1+2n^{2}}{3n^{2}} = \frac{3n^{2}}{3n^{2}} =$$

h)
$$C_{h} = \left(\frac{1}{3}\right)^{h} = \frac{1}{3^{h}} = \frac{1}{3^{h}} = 3$$
Rechveryon

$$C_h = \left(\frac{1}{3}\right)^n = \frac{4}{3^h} = \frac{1}{3^h} = 0$$

$$\lim_{h \to 0} C_h = 0$$
kohvergen i

1.9f

$$C_{n} = \frac{2n}{n+1}$$

$$C_{n} - 2 = \frac{2n}{n+1} - 2 = \frac{2n}{n+1} = \frac{2}{n+1}$$

$$|a_{n} - 1|^{2} = \frac{2n}{n+1} = \frac{2}{n+1}$$

$$|a_{n} - 1|^{2} = \frac{2n}{n+1} = \frac{2n}{n+1}$$

$$\frac{2n}{n+1} = \frac{2n}{n+1} = \frac{2n}{n+1}$$

$$\frac{2n}{n+1}$$

h > 19999 to at h = 20000 ich der Abstand kleiner all 0,0001.