Deckblatt für die Abgabe der Übungsaufgaben IngMathC2

Name, vorname:	Name, Vorname:	Schleifer, Max
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Die folgenden Aufgaben gebe ich zur Korrektur frei:

9/10*30=27

$$\frac{5+1+\frac{1}{h^2}}{h^2} \Rightarrow \alpha_h \Rightarrow \frac{5-1-\frac{1}{h^2}}{h^2}$$

$$\stackrel{\text{(+)}}{=} \frac{6 + \frac{1}{h}}{h^2} \ge a_n \ge \frac{4 - \frac{1}{h}}{h^2}$$

= \frac{1}{100} \frac{1}{100}

$$\frac{h}{h^{2}+1} \cdot \frac{5 \cdot (-2 \cdot (-1))}{6 + (-1) - (1)} \ge \frac{h}{h} \ge \frac{5 \cdot (-1) - 2 \cdot (1)}{6 + (-1)}$$

(ii)
$$Q_n = \sin\left(\frac{\pi}{2}\right) + \cos\left(\frac{\pi}{2}\right)$$

ling int an = -1

ling sup an = 1

(iii)
$$a_{n}^{-} \{ -h, follows | 17 \}$$
 $M_{HP}^{-} \{ + \infty \}$
 $\lim_{n \to \infty} \sup_{n \to \infty} a_{n}^{-} + \infty = \lim_{n \to \infty} \inf_{n \to \infty} a_{n}^{-} = \lim_{n \to \infty} a_{n}^{-}$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \left(\frac{1 - \frac{1}{\sqrt{2}}}{\sqrt{2}} \right)^{\frac{1}{2}} = \frac{1}{\sqrt{2}} \left(\frac{1$$

$$\frac{|b_{u+1}|}{|b_{u}|} = \frac{\sqrt{u}}{2^{u+1}} = \frac{\sqrt{u}}{2^{u}} = \frac{\sqrt{u}}{2^{u}} = \frac{1}{2^{u}} = \frac{1}{2$$

mit Diverserzhitein

= haine Aware trefloor

S Q = : \(\frac{4\lambda+3}{3\lambda^2-4}\)

G 34-4/6 -> 0

a) (1) E 4/13 = E 16 (4+12)
4-2 3/12-4 = E 16 (4+12)
4-2 3/12-4

2 by =: 24-1 2 2 2 2 4

an =
$$\frac{4k+3}{3k^2-4} - \frac{4t^{\frac{1}{2}}}{3k-4/k} = \frac{4}{3k} - \frac{4}{3} = \frac{1}{k} = \frac{1}{k} \quad \forall k \in \mathbb{N}_{+}|$$

divergence

The homorische Reine is one Minimule to ak. Sound ist ak and divergent.

(i) \(\frac{1}{2} \) \(\frac{4k^2+1}{2} \) = \(\frac{2}{2} \) \(\frac{1}{2} \) \(\f

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