1) 
$$0.(216)$$
 $1000a = 216.(216)$ ;  $1000a = 216 + a$ 
 $a = \frac{216}{999} = \frac{24}{111}$ 

1. 
$$0(01) = 1 + 0.0(01) = 1 + \frac{0.(01)}{10}$$
  
0.  $(01)$   
 $100a = 1 + a$   
 $a = \frac{1}{99}$ 

$$1.0(01) = 1 + \frac{1}{990} = \frac{991}{990}$$

- 3) Il re noegy na gary einn cerogue ne dyses corpo chesure converge une cerogue dyses corpo
  - Il noegy na gary econ ceroque dysés chesuss connesse una ceroque ne dyses corpo
- 5)  $\forall C, F \ni S: G(S) \neq \emptyset$  C - kype f - grangneses, S - csygetes, G(S) = ocsennerbce ness

- 6) + XER JXER: X>R yrbepruseume bepur, cresyes us a wemo nor hopepha + XER JXER: X & R
  - $\begin{array}{lll} & \forall y \in [0; \hat{1}] \neq \exists \varepsilon > 0 : \operatorname{SIN} y < \operatorname{SIN} (y + \varepsilon) \\ & \text{we bepno } \cdot \operatorname{Paccnothum} \quad \text{Lipainuse Gopmenta} \\ & y = \hat{1} \quad \operatorname{SIN} \hat{1} > \operatorname{Sin} \left(\hat{1} + \varepsilon\right) \neq \varepsilon > 0 \\ & \forall y \in [0; \hat{1}] \quad \exists \varepsilon > 0 : \quad \operatorname{Sin} y > \operatorname{Sin} (y + \varepsilon) \end{array}$ 
    - 6)  $\forall y \in [0; \frac{\pi}{2}] \exists \varepsilon > 0 : \cos g > \cos (y + \varepsilon)$ before. Pacemosphine repairmed Copusars  $\cos \beta = 1 > \cos (\varepsilon)$   $\cos (\frac{\pi}{2} \varepsilon') > \cos (\frac{\pi}{2} + \varepsilon) \quad \forall \varepsilon', \varepsilon > 0$   $\cot (\frac{\pi}{2} \varepsilon') > \cos (\frac{\pi}{2} + \varepsilon) \quad \forall \varepsilon', \varepsilon > 0$   $\cot (\frac{\pi}{2} \varepsilon') > \cos (\frac{\pi}{2} + \varepsilon) \quad \forall \varepsilon', \varepsilon > 0$   $\cot (\frac{\pi}{2} \varepsilon') > \cos (\frac{\pi}{2} + \varepsilon) \quad (\cos g + \varepsilon)$   $dg \cot (\frac{\pi}{2} \varepsilon') = \cos (g + \varepsilon)$   $dg \cot (\frac{\pi}{2} \varepsilon') = \cos (g + \varepsilon)$