Δ &.

Bestimme mit dem kleinen Satz von Fermat: a.  $\overline{4}^{-11}$  in  $\mathbb{Z}_{13}$ . b.  $\overline{6}^{31}$  in  $\mathbb{Z}_{29}$ . c.  $\overline{6}^{32}$  in  $\mathbb{Z}_{29}$ .

as 
$$\frac{1}{4} = \frac{1}{4} \cdot \frac{1}{4} = \frac{1}{4}$$
  
by  $\frac{1}{6} = \frac{3}{6} \cdot \frac{3}{6} = \frac{3}{6} \cdot \frac{1}{6} = \frac{1}{4} \cdot \frac{1}{6} = \frac{1}{4}$   
c)  $\frac{1}{6} = \frac{3}{13} \cdot \frac{1}{6} = \frac{1}{48} = \frac{1}{20}$