

## 代数宿題3

2014-10-24

Recall that  $\mathbb{G}_a$  is the functor that takes a commutative ring  $R$  to its underlying abelian group  $R$ , and it is corepresented by the ring  $\mathcal{O}_{\mathbb{G}_a} = \mathbb{Z}[x]$ .

1. Find the comultiplication  $\Delta$ , counit  $\epsilon$ , and antipode  $S$  for the affine group scheme  $\mathbb{G}_a$ .

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