

## 代数IB宿題2

2015-4-17

1. Recall that  $\mathbb{G}_m(k) = k^\times = GL_1(k)$ , and the ring of functions on this group is  $k[\mathbb{G}_m] = k[x, y]/(xy - 1) = k[x, x^{-1}]$ . Find  $\Delta : k[x, x^{-1}] \rightarrow k[y, z, y^{-1}, z^{-1}]$ .

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