## Math 918. Quiz \#1

(1) State the definition of derivation.
(2) Describe concretely ${ }^{1}$ all of the $\mathbb{Q}$-linear derivations from the ring $\mathbb{Q}[x, y]$ to itself.

[^0]
[^0]:    ${ }^{1}$ i.e., what they actually are, not just up to isomorphism

