Quiz 1

MATH 11A - Discussion Section C January 25, 2017

| ame & ID # : | - |
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| irections: Leave your final answer in exact form and box it in. You are more than welcome to write out find it necessary. otation: The composition of two functions is formally defined as $f \circ g = f(g)$. The set $\mathbb{R}_{\geq 0}$ denotes to strictly non-negative real numbers whereas \mathbb{R} denotes all real numbers. | |
| Write down the explicit formula modeling an exponential function that passes through the points $(1,6)$ |) and $(3, 24)$. |
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| Determine the functions $f \circ g$, $g \circ f$, $f \circ f$, and $g \circ g$ along with their domains given that: | |
| $f: \mathbb{R}_{\geq 0} \to \mathbb{R}_{\geq 0}$ where $f(x) = \sqrt{x}$ | |
| $g:\mathbb{R} 	o \mathbb{R}$ where $g(x) = \sqrt[3]{1-x}$ | |