## MA 623: Tutorial 1

(Note: Justify all the relevant steps.)

1. "Evaluate" the following function, that is, write it in the form of simpler arithmetic function(s):

$$
\sum_{\substack{d, n \\(d, k)=1}} \mu(d) .
$$

2. Sow that $\sum_{d \mid n} \mu(d) \log ^{m} d=0$ if $m \geq 1$ and $n$ has more than $m$ distinct prime factors.
