Homework 2

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January 23, 2014

1.7.5

(d) Some examples of elements w that are not in the set are $w = a$ or $w = b$ or $w = aba$. An example of an element w that is in the set is aa where $u = aaa$.

2.

(a) Another way to write this is $(a \cup b)^*$
(b) Another way to write this is also $(a \cup b)^*$

3.

$(c*) \cup ((a)c*) \cup ((aa)c*) \cup ((b)c*) \cup ((bb)c*) \cup ((ab)c*) \cup ((ba)c*) \cup (c * (a)) \cup (c * (aa)) \cup ((c * (b)) \cup ((c * (bb)) \cup ((c * (ab)) \cup ((c * (ba)).$