

Name _____ Discrete I, Quiz 3

1) Let P be the set of passwords, and Q be the set of computers. Choose ONE the following statements and express it in statement in a grammatically correct sentence. (4 points)

$\exists x \in P \forall y \in Q (x \text{ unlocks } y)$

$\exists x \in P \exists y \in Q (x \text{ unlocks } y)$

$\forall y \in Q \forall x \in P (x \text{ unlocks } y)$

3) Let x and y be even integers. Prove that the product xy is an even integer. (6 points)