Name:..

Determine the truth value of these statements if the domain of each variable consists of all real numbers. Justify your answer.
a) $\forall x \exists y (x^2 = y)$
b) $\forall x \exists y (x = y^2)$
c) $\exists x \exists y (x + y = (x + y)/2)$
a) $\forall x \exists y (x + y = 2 \ \wedge \ 2x - y = 1)$