

Write the following statements in English and then determine the truth value. Justify your answer. the domain of each statement is \mathbb{R}

1. $\forall x \exists y (y^2 = x)$

(a) English

(b) True or False

(c) Justification

2. $\forall y \exists x (x^2 = y)$

(a) English

(b) True or False

(c) Justification

3. $\forall x \forall y \exists q (q = \frac{x}{y})$

(a) English

(b) True or False

(c) Justification