Discussion: the Irrationality of $\sqrt{2}$ 1.1

THEOREM 1.1.1. There is no rational number whose square is 2. Proof.

$$x = y + x \tag{1.1}$$

$$f(x) = x^2 (1.2)$$

$$f(x) = x^{2}$$

$$f(x) = \sum_{i=1}^{n} x_{i} = x_{1} + x_{2} + \dots + x_{n}$$

$$(1.2)$$