

Proof that 1=2

$$\text{Let } a = b$$

$$a * a = a * b$$

$$a^2 = ab$$

$$a^2 - b^2 = ab - b^2$$

$$(a+b)(a-b) = b(a-b)$$

$$\frac{(a+b)(a-b)}{(a-b)} = \frac{b(a-b)}{(a-b)}$$

$$a+b = b$$

$$b+b = b$$

$$2b = b$$

$$\frac{2b}{b} = \frac{b}{b}$$

$$2 = 1$$