

## FIND THE ERRORS !

**We are going to prove that  $1 = 2$ .**

Assume that  $a = b$ .

Then  $a^2 = ab$ .

Subtract  $b^2$  from both sides :  $a^2 - b^2 = ab - b^2$

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

Divide by  $(a - b)$  :  $a + b = b$

But  $a = b$ , therefore  $b = 2b$

Or  $1 = 2$