**Theorem:** The numbers 1 and 2 are equal.

**Proof:** We want to show that

\[ 1 = 2. \]

Multiplying both sides of the equation by 2 we obtain

\[ 2 = 4. \]

Now, subtracting 3 from both sides of the equation, we deduce that

\[ -1 = 1. \]

Squaring both sides of the equation, we get

\[ 1 = 1. \]

Since this is clearly a true equation, we can conclude that indeed \( 1 = 2. \) ■