Why is positive and negative is always negative?
And negative negative is positive?

## Solution.

The convention $(-1) *(-1)=1$ has been adopted for the simple reason that any other convention would cause something to break.
For example, if we adopted the convention that $(-1)(-1)=-1$, the distributive property of multiplication wouldn't work for negative numbers: $(-1) *(-1+1)=(-1) *(-1)+(-1) * \mathbf{1}=-1-1=-2$
So, we have: $-2=0$.
The same thing is with convention $(-1) * 1=-1$.
If we adopted the convention that $(-1) * 1=1$, the distributive property of multiplication wouldn't work for negative numbers:

$$
(-1) *(-1+1)=(-1) *(-1)+(-1) * 1=1+1=2
$$

So, we have: $2=0$.

