

(or psychic)
Note: If you're very smart ^{guess} you can ~~see~~ the trace how I discovered the solution:

I thought "If $bc = cb$ is really true, then $bc - cb = 0$, and conversely". So let me start with $bc - cb$ and see if I can "simplify" it to 0 using the ring axioms and the $a^2 = a$ property. Since I have no chance with the ring axioms alone, I must use the $a^2 = a$ property.

So I started:

$$bc - cb = (bc - cb)^2 = \dots$$

That didn't end up in that great an enlightenment but I played with the result, multiplying it with b, c from either side, trying $bc + cb = (bc + cb)^2 = \dots$ as well until I discovered the $a + a$ property.

Then I sifted all the results I had gotten, put them in a clean order, and behold, the ink hints were born...