

30 W 15th St.

N. York, 1886 Dec 30.

My dear Margaret:

I am as deeply touched by
your generosity, as if you had
made me a present; and doubt-
less you think it ~~highly~~ some-
what problematical when you
see your money again. Never-
theless, I have no intention of
remaining so poor as I am,
and if there is no other way,
if the world does not care to
pay for my philosophy, I will
abandon that and apply my
logic to private ends. I mean
at once to advertise that I will

P.S. If you will send me a copy of your last paper on your machine, I will set to Devil's
Advocate, by attacking

give lessons to correspondence
in the art of reasoning. If this
idea is as successful as I hope,
I shall not keep you long wait-
ing. If not, I have others.

I am very sorry I have mis-
sed you. I want to talk to you
about my great Idea in philo-
sophy. I would gladly go to
Princeton & do so.

You spoke, when I saw you,
as if disappointed with the
reception your machine had
met with. I wish I could
see it. My impression is that
it has two defects; first, I
believe it only extends to four
simple terms instead of to six

as it should; and second, I believe it does not reduce the solution to its simplest expression. It ought to perform 4 operations, or 3 at least.

First it should develop any expression as a into $abcdef + abcdef + abcdef + \text{etc.}$ Second it should reduce expressions; for instance

$abcdef + abcdef + abcdef$
into $abcde + abcdef$.

Third, it should multiply two developed polynomials, if not any two. Fourth, though not absolutely required, it would be well to have it capable of adding. I think you ought to return to

by no means hopeless to expect to make a machine for really very difficult mathematical problems. But you would have to proceed step by step. I think electricity would be the best thing to rely on.

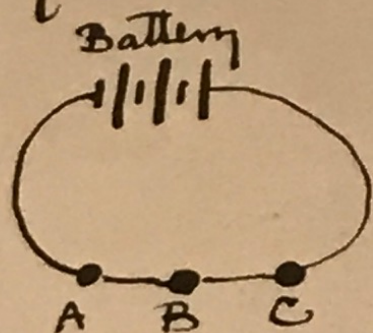


Fig 1.

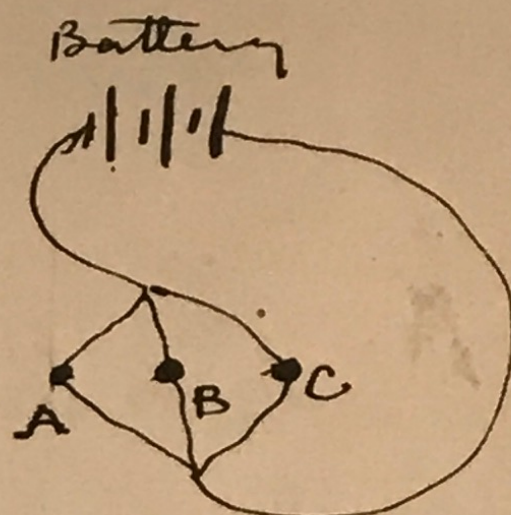


Fig 2.

Let A, B, C be three Keys or other points where the circuit may be open or closed. As in Fig 1, there is a circuit only if all are closed; in Fig. 2. there is a circuit if any one is closed. This is like multiplication & addition in Logic.

Yours faithfully C.S. Peirce

