Voltage divider using resistors

```
circuit = Circuit('circuits/passive/c1_voltage_divider.txt');
circuit.list
```

```
ans =
'Vin 1 0 DC 5
R1 1 2 1000
R2 2 0 3000
```

ELAB.analyze(circuit)

Symbolic analysis successful (0.191942 sec).

Maybe you want expressions for node voltages.

circuit.symbolic_node_voltages

ans =

$$\begin{pmatrix} v_1 = Vin \\ v_2 = \frac{R_2 Vin}{R_1 + R_2} \end{pmatrix}$$

Or the numerical currents for all elements in this particular circuit.

ELAB.evaluate(circuit)

Numerical evaluation successful (0.0325243 sec).

circuit.numerical_element_currents

ans =

$$i_{R1} = \frac{1}{800}$$
$$i_{R2} = \frac{1}{800}$$