## Christian Garcia

ELEN 50L

Wednesday 2:15 PM

4 November 2020

## Project 1 Report

Part 1: PreLab

$$V_{s} \stackrel{R_{1}}{=} \begin{array}{c} V_{s} \\ V_{s} \\ \hline \end{array}$$

$$V_{s} \stackrel{R_{1}}{=} \begin{array}{c} R_{1} \\ R_{2} \\ R_{3} \\ \hline \end{array}$$

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$$V_{s} =$$

## Part 2:

$$\frac{V_{1} \cdot V_{2}}{R_{3}} + \frac{V_{1} \cdot V_{4}}{R_{5}} + \frac{V_{1} \cdot V_{4}}{R_{5}} + \frac{V_{1} \cdot V_{4}}{R_{5}} + \frac{V_{1}}{R_{6}} = 0$$

$$\frac{V_{1}}{R_{5}} + \frac{1}{R_{4}} + \frac{1}{R_{5}} + \frac{1}{R_{5}} + \frac{1}{R_{6}} - V_{2} \left(\frac{1}{R_{5}}\right) - V_{2} \left(\frac{1}{R_{5}}\right) - V_{3} \left(\frac{1}{R_{5}}\right) - V_{3} \left(\frac{1}{R_{5}}\right) = 0$$

$$\frac{V_{1} \cdot \left(\frac{1}{R_{5}} + \frac{1}{R_{4}} + \frac{1}{R_{5}} + \frac{1}{R_{5}} + \frac{1}{R_{5}} + \frac{V_{2} \cdot V_{3}}{R_{5}} + \frac{V_{2} \cdot V_{3}}{R_{5}} = 0$$

$$\frac{V_{1} \cdot \left(\frac{1}{R_{5}} + \frac{1}{R_{4}} + \frac{1}{R_{5}} + \frac{1}{R_{5}}\right) - V_{1} \cdot \left(\frac{1}{R_{4}}\right) - V_{3} \cdot \left(\frac{1}{R_{5}}\right) - V_{3} \cdot \left(\frac{1}{R_{5}}$$

## >> ELEN50Project1

Vth =

9.0000

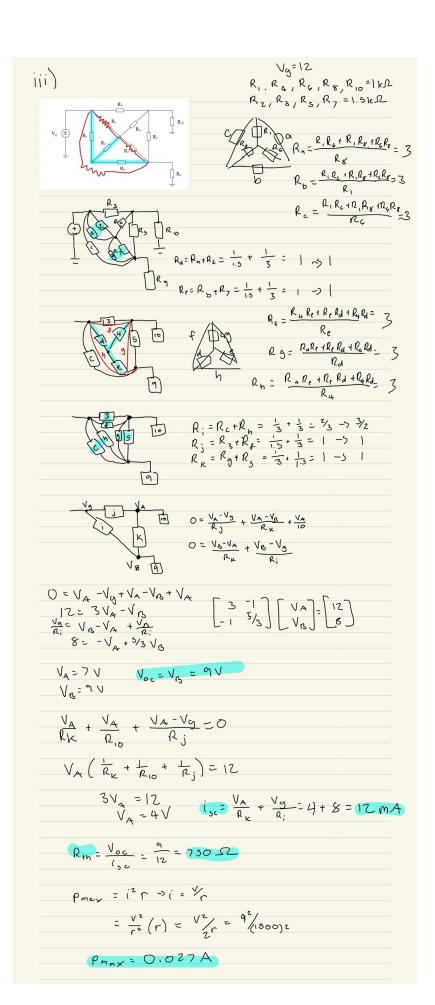
Isc =

12

Rth =

750.0000

Part 3:



Part 4: All my resistors were 500 Ohms

```
>> ELEN50Projectl1

Vth =
9.3913

Isc =
31.6098

Rth =
297.1014
```

Part 5:

