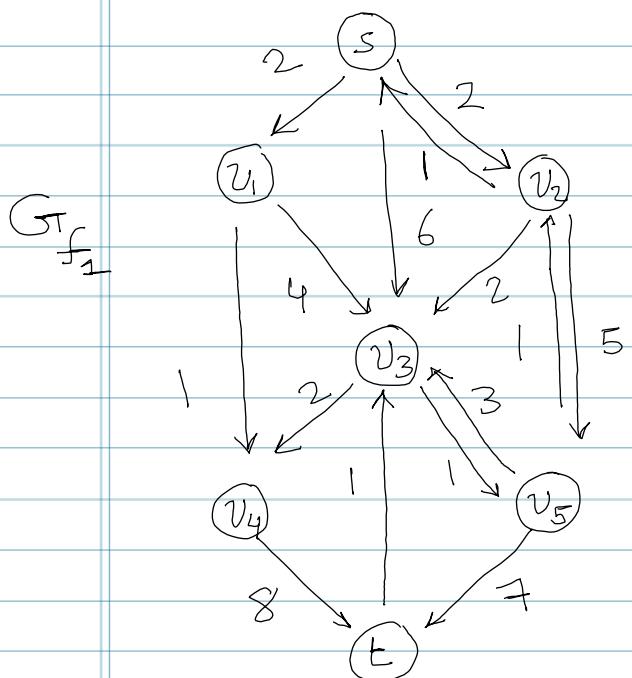
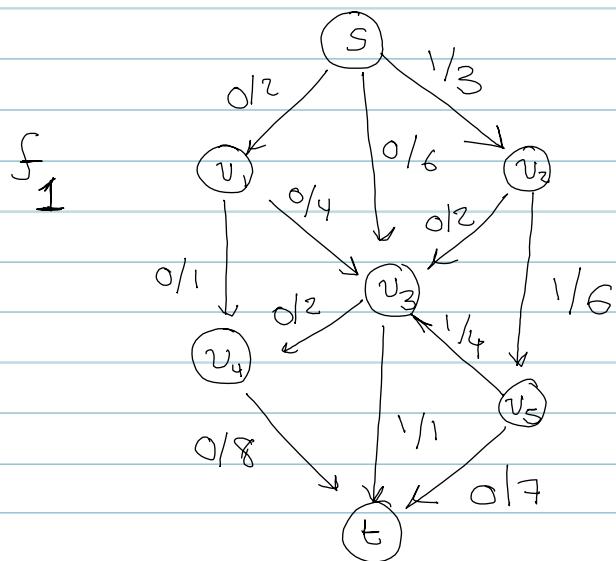


augmenting path:

$$S \rightarrow v_2 \rightarrow v_5 \rightarrow v_3 \rightarrow T$$

$$\min\{3, 6, 4, 1\} = 1$$

critical edge $v_3 \rightarrow T$

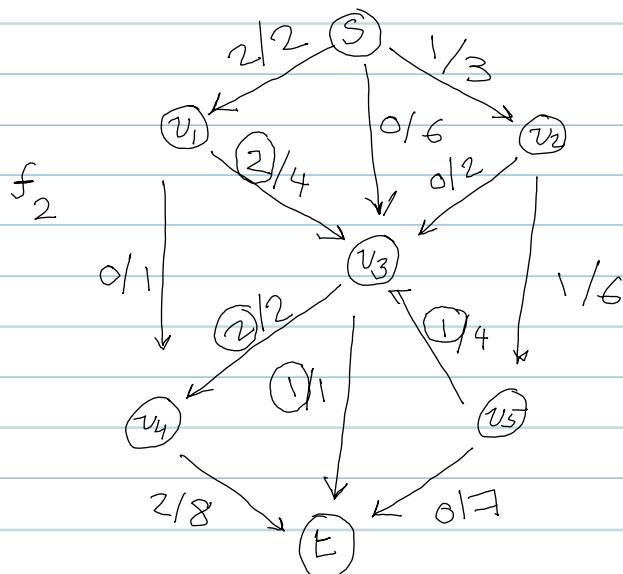


augmenting path

$$S \rightarrow v_1 \rightarrow v_3 \rightarrow v_4 \rightarrow T$$

$$\min\{2, 4, 2, 8\} = 2$$

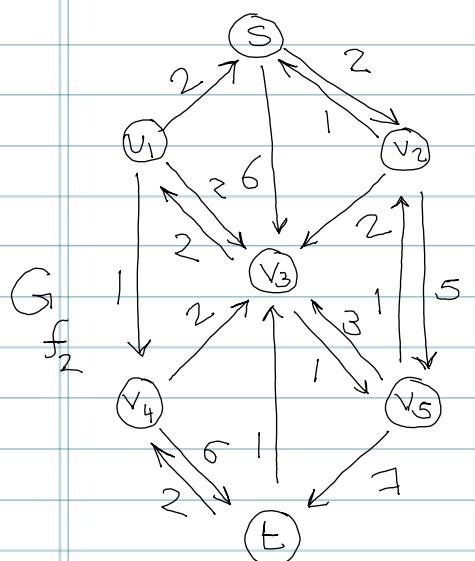
critical edges: $S \rightarrow v_1$, $v_3 \rightarrow v_4$



To hear and view this Pencast PDF on your computer,
[click here](#) to get the latest version of Adobe® Reader®.

$$f(u; v) + f'(u, v) - f'(u, v)$$

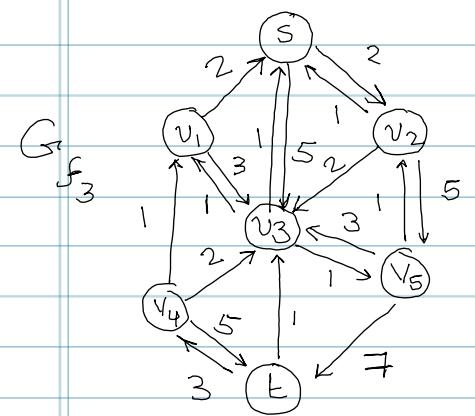
$$2 + 0 - 1 = \underline{\underline{1}}$$



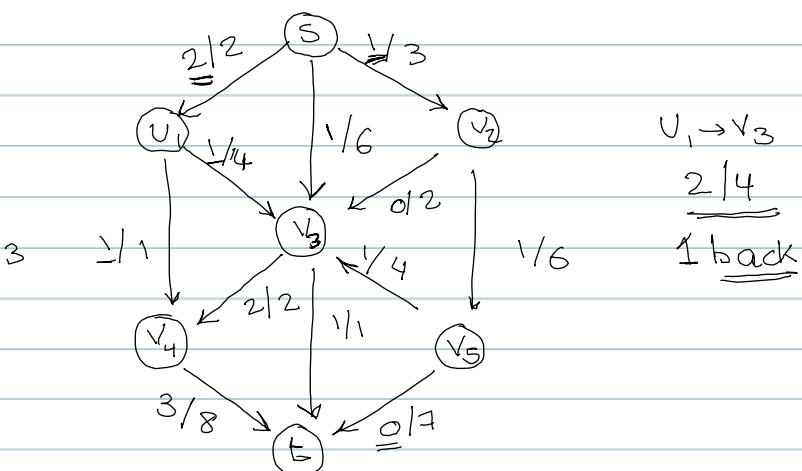
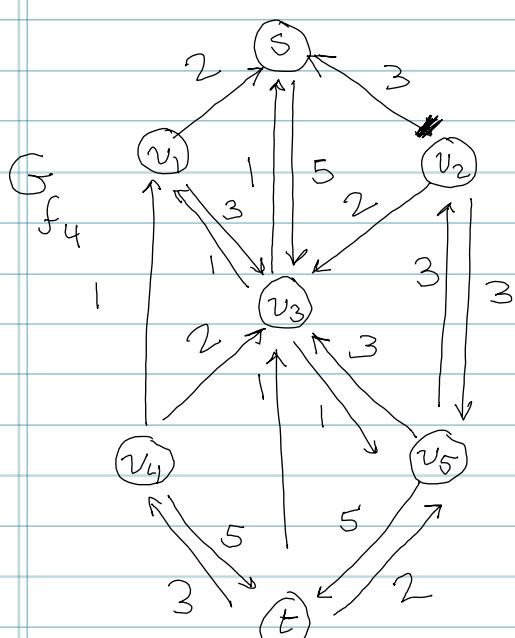
augmenting path: $S \rightarrow v_3 \rightarrow v_1 \rightarrow v_4 \rightarrow T$

$$\min \{6, 2, 1, 6\} = 1$$

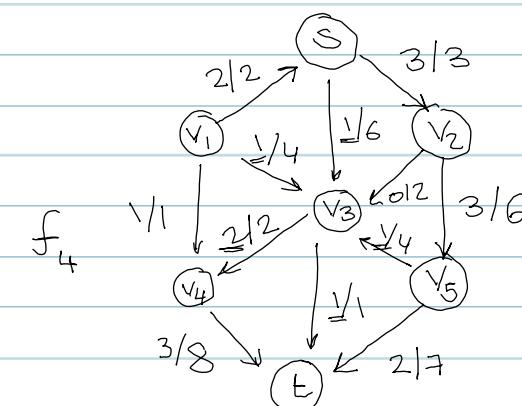
critical edge $v_1 \rightarrow v_4$



augmenting path: $S \rightarrow v_2 \rightarrow v_5 \rightarrow T$

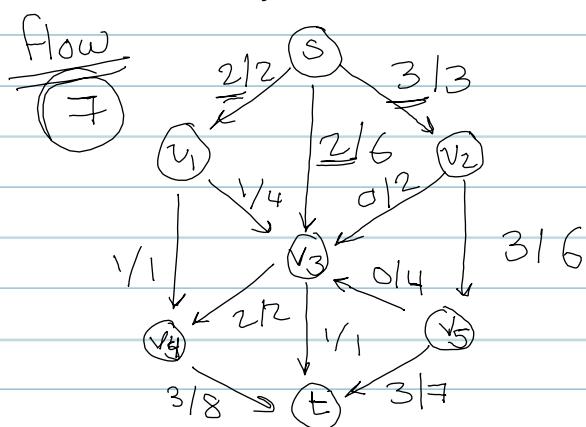
$$\min \{2, 5, 7\} = \underline{\underline{2}}$$


$$\begin{array}{r} v_1 \rightarrow v_3 \\ \hline 2/4 \\ \hline 1 \text{ back} \end{array}$$



$$\begin{array}{r} \text{flow} = 2+3+1 \\ \hline = \underline{\underline{6}} \end{array}$$

aug. path: $S \rightarrow v_3 \rightarrow v_5 \rightarrow T$

$$\min \{5, \cancel{1}, 5\} = 1$$


$$\begin{array}{r} v_3 \rightarrow v_4 \\ \hline 1 \rightarrow \text{back} \\ \hline 1-1 \end{array}$$