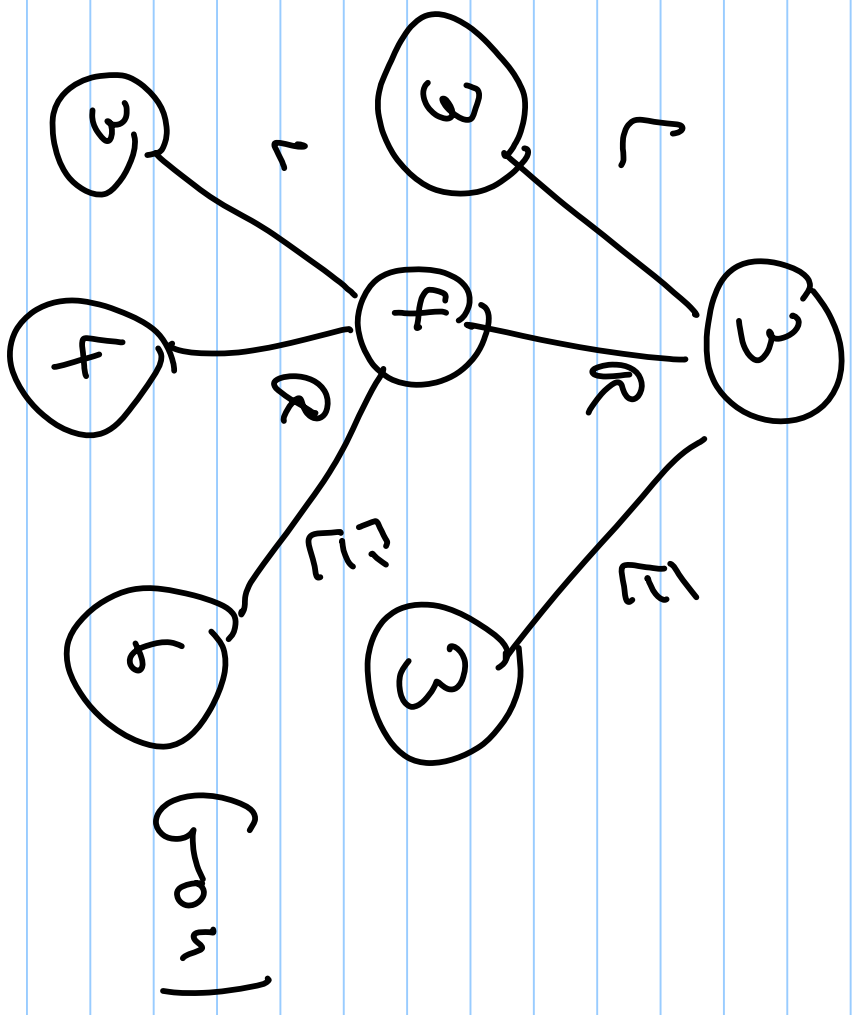


1a)



Path is 3 → 4 → 6 Goal

b)  $\{1, 2, 3, 4\}$

$\{1, 2, 3, 4\} \subset \mathbb{R}$   
 $\{1, 2, 3\} \subset \mathbb{R}$   
 $\{5, 2, 3, 4\} \subset \mathbb{R}$   
 $\{2, 4\} \subset \mathbb{R}$

$\{1, 2\} \subset \mathbb{R}$   
 $\{5, 2\} \subset \mathbb{R}$   
 $\{2, 4\} \subset \mathbb{R}$

$\{5, 2\} \subset \mathbb{R}$   
 $\{5, 3\} \subset \mathbb{R}$   
 $\{6, 4\} \subset \mathbb{R}$

$L \setminus \mathbb{Z} \setminus \mathbb{R}$   
 $\{5,3\}$   $\{6\}$   $\{6,4\}$

$L \rightarrow E \rightarrow \mathbb{R} \rightarrow \mathbb{Z}$