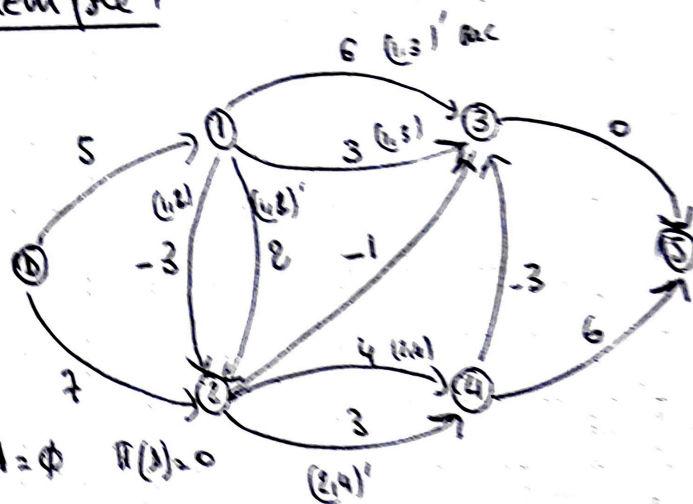


1.2

Exemple 1

$R = (x, u, d)$
Pas de circuit

(0) $S = \{s\}$ $A = \emptyset$ $\pi(s) = 0$
1^{re} itération

(1) $x = 1$

(2) $\pi(x) = \pi(1) = \pi(s) + d(s, 1) = 0 + 5 = 5$

$A = \{(1, 1)\}$ $S = \{s, 1\}$

2^{de} itération

(1) $x = 2$

(2) $\pi(x) = \pi(2) = \min \{ \pi(s) + d(s, 2), \pi(1) + d(1, 2), \pi(1) + d(1, 2) \}$
 $= \min \{ 7, 2, 7 \} = 2 = \pi(1) + d(1, 2)$

$A = \{(1, 1), (1, 2)\}$ $S = \{s, 1, 2\}$

3^{de} itération

(1) $x = 4$

(2) $\pi(x) = \pi(4) = \min \{ \pi(2) + 4, \pi(2) + 3 \} = \min \{ 6, 5 \} = 5$
 $= \pi(2) + d(2, 4)'$

$A = \{(1, 1), (1, 2), (2, 4)'\}$ $S = \{s, 1, 2, 4\}$