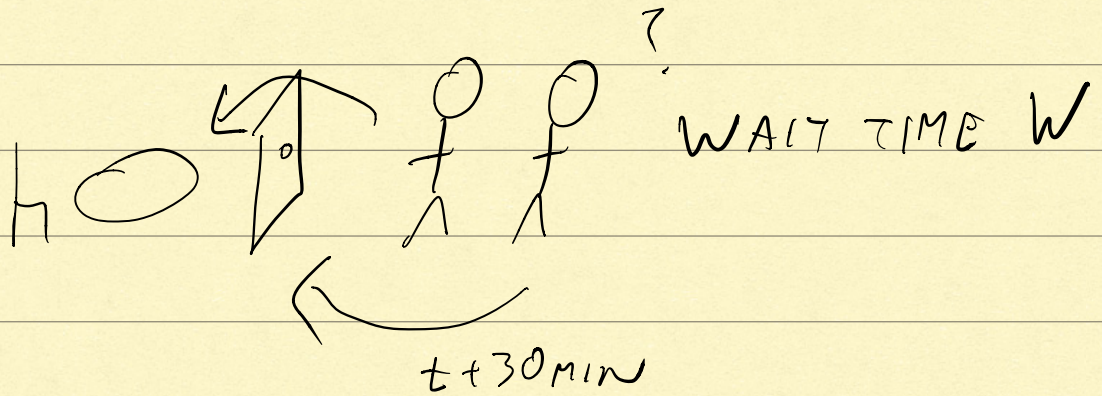


PS 4A



$$E[W] = E[W|A]P(A) + E[W|B]P(B)$$

A, B PARTITION S

OPTION 1:

FIRST MEETING DURATION

$$E[W] = E[W | T_1 < 30 \text{ min}]P(T_1 < 30 \text{ min}) + E[W | T_1 \geq 30 \text{ min}]P(T_1 \geq 30 \text{ min})$$

OPTION 2:

K - # of meetings ending in
FIRST 30 min

$K \sim \text{POISSON}$

$$E[W] = E[W | K \geq 1]P(K \geq 1) + E[W | K = 0]P(K = 0)$$

