Cotches (1/0) Bus Person Run No. 7:05 7:10 7:20 7:20 2 7:25 7:15 0 7:20 7:30 0 7:15 7:30 0 7:00 7:05 7:25 7:20 7 7:10 7:00 8 7:30 7:10 9 7:10 7:15 10 (a) Porobability purson catcher the box = $\frac{5}{10} = 0.5$ /

(b) Let us say that the avaival times are

. _

Theoretical brobability = (person) x) + (person 2) x plus (2:7) humberd +...+ (Pperson (7) x Pbus (7)) $= (0.05 \times 1) + (0.1 \times 0.9) + (0.15 \times 0.75)$ $+ (0.2 \times 0.55) + (0.25 \times 0.3) + (0.15 \times 0.15)$ + (0.1×0.05) = 0.05 + 0.09 + 0.1125 + 0.110°

$$= 0.05 + 0.09 + 0.1125 + 0.1100$$

+ $0.075 + 0.0225 + 0.005$