P1. If a decreases too feet; it may prove converge before the optimination of pound.

where a = a + 1 - a +

Pz: a) 1/3.

b) $P(A=1 | B_{2}1) = \frac{P(A=1) P(B=1|A=1)}{P(A=1)P(B=1|A=1) + P(A=2) P(B=1|A=2) + P(A=3)RB=1|A=3)}$ $= \frac{1/3 \times 1/2}{1/3 \times 1/2 + 1/3} = \frac{1}{3}.$

So $P(\text{car behild door } 2) = 1 - \frac{1}{3} = \frac{1}{2}$. (). Ye. spen door has higher possibility. $P(A = 2 | B = 1) = \frac{2}{3}$. $P(A = 1 | B = 1) = \frac{1}{3}$. $P(A = 1 | B = 1) = \frac{1}{3}$. $P(A = 1 | B = 1) = \frac{1}{3}$.

P3: Examples Lafon thy (x). $= \sum_{n} p(n) \left(af(n) + bg(n) \right).$ $= \sum_{n} ap(n) f(n) + \sum_{n} bp(n)g(n).$ $= \sum_{n} ap(n) f(n) + b\sum_{n} p(n) g(n).$ $= a \sum_{n} f(n) + b \sum_{n} g(n) \right).$ $= a \sum_{n} f(n) + b \sum_{n} g(n) \int_{n} f(n) dn$ $= a \sum_{n} f(n) + b \sum_{n} g(n) \int_{n} f(n) dn$ $= a \sum_{n} f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n) + b \sum_{n} f(n) f(n) = a \sum_{n} f(n) f(n)$