PUICK ASSIGN MENT: SHUBHAM SWAMI - A02315672

Prob 1: EQ1 > Pg = Po 90 + (poq1+p190)2+ p19122 $= 3 + (4 + 6) \times + (8)$ Fraditional Method: (1×3) + (1×42) + (2×3) + (2××42) => 3 + 4x + 6x + 8x2 2) 3 + 10x + 8x2. Pg = S2+ (S1-S2-S3) x + S322. 91= (PotPi)(qotqi) = (1+2)(3+4)= 3x# Sa = (pogo) = (1x3) = 3. S3 = (p191) = (2x4) = 8. $= 3 + (21 - 3 - 8) 2 + 8(2^{2})$ 3+ 102+ 827 all the methods yield same answer

Prob: 2. Ple Stax g = 7+82. 90 9, P= 5+6x (1)Traditional Method: PQ = (5x7) + (5x8x) + (62x7) + (62x8x)= 35 + 402 + 422 + 4822 $= 35 + 82x^2 + 48x^2$ Soln= 35 + 82x + 4822. Egn (1) pg = Pogo + (pogi + Pigo)2 + pigi22 PQ= (5x7) + (5x8) + (6x7)) x + (6x8) x2 $= 35 + (40 + 42) \times + 48 \times^{2}$ = 35 + 822 + 4822PQ = S2 + (S1-S2-S3) x + S322 S1 = (PO+P1)(Q0+Q1) = (5+6) x [7+8] = (11 x 15) = (60) · 165 Sa = Po Qo = 5 x7 = 35 S3= 8181= 6 x 8 = 48. => PQ = 35 + (185 - 48 - 35) x + 48. x2 $= 35 + 82 + 48x^2$ all the methods yield the same answer.