Radical Explossions Ex: 548 = (54) S12 = 2512 = 4 E_{X} : $\sqrt{3}-2\sqrt{2}=\sqrt{a}-\sqrt{b}=\sqrt{2}-1$? $=\sqrt{0.414}$ 3-252 = a - 25ab + b $\chi^{2}+9=4\chi^{2}-12\chi+9$ 3 = -3 χ 9=4J $0 = 3x^2 - 12x = 3x(x-4) \qquad x = 2 \qquad 4$ Rationalizing Denominators E_{X_1} $\frac{(56+55)}{(56+55)} = \frac{56+55}{6-5} = 56+55$ $(a-b)(a+b) = a^2 - b^2$ Ex: 51+52 + 52+53 + 53+54 + ... + 599+5160 $\frac{1}{\int_{1}^{1} \int_{2}^{1} \int_{1}^{2} \int_{2}^{1} \int_{1}^{2} \int_{2}^{2} \int_{1}^{2} \int_{2}^{2} \int_{1}^{2} \int_{1}^{2}$ 5-50 + 53-52 + 54-53 + 1/ 1 5100 JAq