LOG REVIEW  $\left(25^{-3/2} + 2^{-1}\right)^{-1}$  $\left(\sqrt[3]{25^3} + \frac{1}{2^{-1}}\right)^{-1}$  $(3^5)^2 = 3^{10}$ 1b) Cross cancel  $\begin{pmatrix} 2 \cdot 1 \\ 2 \cdot 1 \\ 2 \cdot 1 \\ 3 \cdot 1 \\ 2 \cdot 1 \\ 3 \cdot 2 \end{pmatrix}^{-1}$  $\left(\frac{2}{250}+\frac{125}{250}\right)^{-1}$  $\left(\begin{array}{c} (27)\\ a 50\end{array}\right)^{-1}$ -= (250 127

3) a-i) Make one log on each side 3) Solve & Check 2) Exponentiate both sides. Solutions Like 3i)  $\ln ax + \ln(x-4) = 3$ ln (2x2-8x)=3  $2x^2 - 3x = e^3$  $\partial x^2 - \delta x - e^3 = 0$  $\frac{\sqrt{64 + 4(2)}}{2(2)} = \frac{8 + \sqrt{64 + 8e^3}}{7 + \sqrt{64 + 8e^3}} \\
\overline{9} + \sqrt{64 + 8e^3} \\
\overline{9} +$  $\chi = \frac{8 \pm \sqrt{64 + 4(2)(1+e^3)}}{2(2)}$  $\mu_{3}^{\mu} p^{2\chi} - 5 = 4e^{\chi}$ e<sup>2x</sup>-9ex-5=0 (ex-5)(ex+1)=0 ex-5=0 ex+1=0 Ine the her the X=ln5/X=



