

I. Solve each exponential equation. Keep answers as fraction. You must show ALL of YOUR WORK to RECEIVE CREDIT!!

1.) $5^{-2x-1} = 5^{2-x}$	2.) $6^{2x} = 6^{-2x-2}$	3.) $2^{2x-3} = 2^{1-x}$	4.) $4^{-1-x} = 4^{3x}$
5.) $6^{3x} = 36$	6.) $2^{-2x-2} = \frac{1}{4}$	7.) $\left(\frac{1}{16}\right)^{3x} = 64^{-2x}$	8.) $3^{3x} = 27$
9.) $64^{1-2x} = 16^{-2x}$	10.) $4^{2-4x} = 64$	11.) $5 = 125^{2x+1}$	12.) $36^{3x+2} = \left(\frac{1}{6}\right)^{-2x}$
13.) $\left(\frac{1}{32}\right)^{2x-6} = 16^{x+5}$	14.) $9^{4x-3} = \sqrt{27}$	15.) $2^{2x-6} = 16$	16.) $5^{2-5x} + 5 = 130$