4) $y = a x^b$ /ln

$$\ln y = \ln a + \ln x^b$$

$$\ln y = \ln a + b \ln x$$

$$z = A + B U \qquad z = \ln y \qquad U = \ln x$$

X	Y	U	z
0.1	0.001	-2.303	-6.908
0.2	0.003	-1.609	-5.809
0.4	0.062	-0.916	-2.781
0.6	0.350	-0.511	-1.050
0.8	1.180	-0.223	0.166
1.0	3.020	0	1.105
1.2	6.500	0.182	1.872

$\bar{U} = -0.769$ $\quad S_U^2 = 0.706$ $\quad S_{Uz} = 2.620$

$\bar{z} = -1.915$ $\quad S_z^2 = 9.911$

$\hat{B} = \frac{S_{Uz}}{S_U^2} = 3.712$ $\quad \hat{A} = \bar{z} - \frac{S_{Uz}}{S_U^2} \bar{U} = 0.938$

$\ln a = A \rightarrow a = e^A \rightarrow \underline{\hat{a} = e^{\hat{A}} = 2.555}$

$b = B \rightarrow \underline{\hat{b} = \hat{B} = 3.712}$