$$(2) \quad a) \quad \times (2) = \left(\frac{1}{2}\right)^{2}$$

$$(Z(x(b)) = \sum_{k=0}^{\infty} x(k) \cdot E^{-k} = x(0) \cdot E^{0} + x(1) \cdot E^{-1} + x(2) \cdot E^{-1} = x(0) \cdot E^{-1}$$

$$= 1 + \left(\frac{1}{2}\right)^{1} + \left(\frac{1}{2}\right)^{2} + \left(\frac{1}{2}\right)^{3} + \left(\frac{1}{2}\right)^{3} + \left(\frac{1}{2}\right)^{3} + \cdots$$

$$=1+\left(\frac{1}{2},\frac{1}{2}\right)+\left(\frac{1}{2},\frac{1}{2}\right)^2+\ldots=1+\left(\frac{1}{2}\right)^1+\left(\frac{1}{2}\right)^2+\left(\frac{1}{2}\right)^3+\left(\frac{1}{$$

$$a + a \cdot 2 + a \cdot 2 + a \cdot 2 + a \cdot 2 + \dots = \frac{a}{1-2}$$

$$Z(x(b)) = 1 + (\frac{1}{2z}) + (\frac{1}{2z}) + \dots$$

$$Z(x(3)) = 2\xi - 1$$
 $Z\xi - 1$

$$\frac{2\xi}{2\xi} = \frac{2\xi}{2\xi - 1}$$

$$f(x) = x + y = x + y = y = x + y = y = x + y = y = x + y = y = x + y$$

$$Z(y(b+1)) = Z(1.1.y(b)) = y(0) = 100$$

$$(=) \ \Xi(Y(Z)) - 100 = 1.1. Y(Z) (=) (Z - 1.1)(Y(Z)) = 100.Z$$

$$y(b) = \frac{1}{\xi} \left\{ \frac{\xi}{\xi - 1.1} \right\} = 100 \cdot \left\{ \frac{1}{1 - 1.1 \cdot \xi - 1} \right\} = 100 \cdot (1.1)^{\frac{1}{2}}$$

occolding to the table (1.1) 2 of Liansf