Theo 8.2 a) Die Transformationen mind 81: (t,x) -) (t, Rx), RE 0(3) 82: (tix) -> (t+c,x+b), CER, bER' 83: (t/x) (t/x+v(t-c)), vER3 Als Beweis führen wir g30920g1 aus. gtt=93(92(91(t,x)))=93(92(t,Rx))=93(t+4,Rx+6)=(t+4,Rx+6)(t+4-4)) g(tix) = (t+c, Rx+b+vt) V =) 9:(6,x) >> (t+4, Rx+vt+b) b) Das Inverse ron gist g-1 g-1: (t,x) -> (t-c, R-x-R-16-R-1/(t)) 3-3g(Ex)= 9-1(t+4 Rx+6+vt) -> (t, R-1(Rx+6+vt)-R-16-R-1/(t)) = (t1x+R-16+B-2+-R-16-R-17+) $=(t_1x)$ =) g-1ct(x) = g-10 g-10g-1(t(X) =) g-1: (t,x) (+, R-1x)

92: (tix) -> (t-c,x-R-16

93: (tix) (tix+rut)