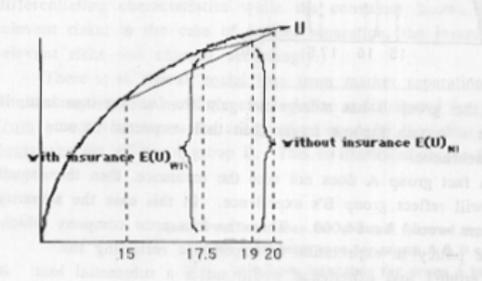
Now for Group A

 $E^{A}(Y)_{NI}$ = .2*(15,000) + .8*(20,000) = 19,000 $E^{A}(U)_{NI}$ = .2U(15,000) + .8U(20,000) $E^{A}(Y)_{WI}$ = .2[15,000+5,000-2,500] + .8[20,000-2,500] = 17,500 $E^{A}(U)_{WI}$ = U(17,500)

The gain from insurance for group A (call it G.I.A) G.I.A= $E^{A}(Y)_{WI}$. $E^{B}(Y)_{NI} = U(17,500) - [.2U(15,000)+.8U(20,000)]$



As it has been drawn, the utility function G.I.A is slightly negative so that those from group A will chose not to join the insurance pool.

For Group B

 $E^{B}(Y)_{NI}$ = .8(15,000) + .2(20,000) = 16,000 $E^{B}(U)_{NI}$ = .8U(15,000) + .2U(20,000) $E^{B}(Y)_{WI}$ = .8[15,000+5,000-2,500] + .2[20,000-2,500] = 17,500 $E^{B}(U)_{WI}$ = .8U(17,500) + .2U(17,500) = U(17,500)