continuous version of Lof TP $f_{I} = \int_{-\infty}^{\infty} f_{I}(x) - f_{I}(x) dx$

E (911)= for y falk (718)

 $E(\mathfrak{T}) = \int_{-\infty}^{\infty} f_{\mathfrak{X}}(x) \cdot E(\mathfrak{T}(x)) dx \qquad (Adam)$ $L_{\mathfrak{F}} = E_{\mathfrak{F}}[E(\mathfrak{T}(\mathfrak{T}))] \qquad (Adam)$

Def: $V(IX) = E^{X} \{ [I - E(IX)]^{x} | X \}$

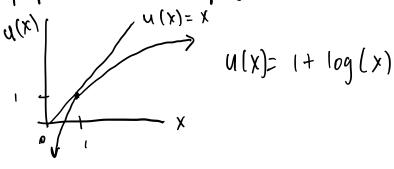
 $V(\underline{\tau}) = E_{\underline{\tau}} [V(\underline{\tau}|\underline{z})] + V_{\underline{\tau}} [\underline{\tau}(\underline{\tau}|\underline{z})] \longleftarrow (\underline{\tau}|\underline{v})$

Utility

risk-averse Us. risk-secking

Your utility function U(x) is that function which assigns to each possible not gain $-\infty < x < \infty$ a real $\pm t U(x)$ representing the value to you of gaining x.

brobosed rapplinent traction:



WLOG as x7 U(x) T

