TODAY'S SUBJECT 45 K 71005700 · Risk Aversion -> Setup: * Focus on monetary prizes/outcomes X=[0,M] & the i.e. any amount between 6 and M. * How to represent a lottery. i) If only finitely many ortcomes have positive probability we can label then as x, x, x, ... xn ∈ [0, m] and write P=(P, X, P2, X2; ...; Pn, Xn) -> Expected Utility Function:

-> Be anoulli utility function u(.) over comment

-> Assume u(.) is increasing in sation tinvous, an

thice differentiable.

-> Expected utility thurston N(O) over prospects to

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u(x) dF(x) xe[O, M] * Can also write using f(x)= &F(x)/dx as $U(F) = \int_{-\infty}^{\infty} u(x) f(x) dx$ XELO,M] lefinition 1: 8x = degenerate lottery that gives the monetary prize x w/ probability 1. - Definition la: A decision-maker (PM) is (strict F n/ expected value $E_F = (x d F(x))$ XE [O, M] the DM prefers SEx over Fl. the DM would prefer the expected value for sive over the lottery