

- Chapter 2.2, page 41 **Table 2.1**

Class	Definition	ARA $r(x)$	RRA $rr(x)$	Special properties
Logarithmic	$\ln(x)$	decr.	const.	”Bernoulli utility”

- Chapter 2.2, page 43:
the *midpoint certainty equivalent method*.

- Chapter 2.2, page 45:

$$\frac{1}{2}u(w-l) + \frac{1}{2}(w+g) = u(w) + \frac{1}{2} \left(u'(w)(g-l) + \frac{1}{2}u''(w)(g^2 - l^2) + O(g^3 - l^3) \right)$$

- Chapter 2.3, page 49:

A:	payoff	0 €	1010 €	B:	payoff	-1000 €	10 €
	probability	99.505%	0.495%		probability	0.495%	99.505%

- Chapter 3.4, page 131 Table 3.2. The 5th row 6th column **-2.172** instead of 2.172
- Chapter 3.4, page 134, the right hand side of last formula, it should be β instead of $-\beta$.

$$\frac{dpt^+(\lambda R_j + (1-\lambda)R_M)}{d\lambda}|_{\lambda=0} = \beta \frac{dpt^+(\lambda R_j + (1-\lambda)R_M)}{d\lambda}|_{\lambda=0}$$

- Chapter 4.4.5, page 184, for the quadratic prospect theory value function

$$v(c_s - RP) := \begin{cases} (c_s - RP) - \frac{\alpha^+}{2}(c_s - RP)^2, & \text{if } c_s \geq RP \\ \lambda \left((c_s - RP) - \frac{\alpha^-}{2}(c_s - RP)^2 \right), & \text{if } c_s < RP \end{cases}$$

... The likelihood ratio process for the piecewise quadratic utility is:

$$\delta^i u'(c_0)l(c_s) = \begin{cases} 1 - \alpha^+(c_s - RP), & \text{if } c_s \geq RP \\ \lambda(1 - \alpha^-(c_s - RP)), & \text{if } c_s < RP \end{cases}$$

- Chapter 4.4.5, page 185,

$$P(R^M \geq R_f) := \sum_{R_s^M \geq R_f} p_s,$$

$$cov^+(R^k, R^M) := \sum_{R_s^M \geq R_f} \frac{p_s}{P(R^M \geq R_f)} (R_s^k - E(R^k)) (R_s^M - E(R^M))$$

$$cov^-(R^k, R^M) := \sum_{R_s^M < R_f} \frac{p_s}{P(R^M < R_f)} (R_s^k - E(R^k)) (R_s^M - E(R^M))$$

The general risk-return decomposition is

$$P(R^M \geq R_f) (E^+(R^k) - R_f - \hat{\alpha}^+ cov^+(R^k, R^M)) \\ + (1 - P(R^M \geq R_f)) (E^-(R^k) - R_f - \lambda \hat{\alpha}^- cov^-(R^k, R^M)) \\ = \sum_{R_s^M \geq R_f} p_s (R_s^k - E(R^k)) \left(\frac{1}{\delta^i u'(c_0)} - \hat{\alpha}^+ (E(R^M) - R_f) \right) \\ + \lambda \sum_{R_s^M < R_f} p_s (R_s^k - E(R^k)) \left(\frac{1}{\delta^i u'(c_0)} - \hat{\alpha}^- (E(R^M) - R_f) \right)$$

- Chapter 4.6, page 195:

$$\sum_{s_t} \delta_R(t) = \pi_{s_t} \zeta(s_t)^{\gamma_R(s_t)}, \quad (4.3)$$

- Chapter 8.1, page 299:

The trading strategy is defined as follows: at every time t hold one option and $-\partial V(S, t)/\partial S$ stocks.... The value of this delta hedge portfolio at time t is $V(S, t) - S(t)\partial V(S, t)/\partial S$.

... Therefore, we can equal dR with the incremental return of the risk-free asset of the same amount (which is $V(S, t) - S(t)\partial V(S, t)/\partial S$), i.e....

- Chapter 4.6, page 196:

... hence the *lower* bound is called the Hansen and Jagannathan bound.

- Chapter 4.9, page 206:

To prove stability, we define a so called “**Lyapunov function**” $L(t) = \|q_t - q^*\|^2$.