

CASE 1: e is obserrable.

(1) Consider both values of a

$$\frac{1}{3}(+20) + \frac{2}{3}(-10)^{2} = 10$$

$$1$$

$$Q=400$$

$$\sqrt{w} - 1 \ge 10$$
 $w^* \ge (11)^2$
 $w^* = (21)^2$

VW = 10 W = 100

2 cheapest for principal w= 100

(3) which is better?

$$EV_{p}(e=0): \frac{2}{3}(100-100) + \frac{1}{3}(400-100) = 100$$

$$EV_{p}(e=1): \frac{2}{3}(400-121) + \frac{1}{3}(100-121) = 179$$

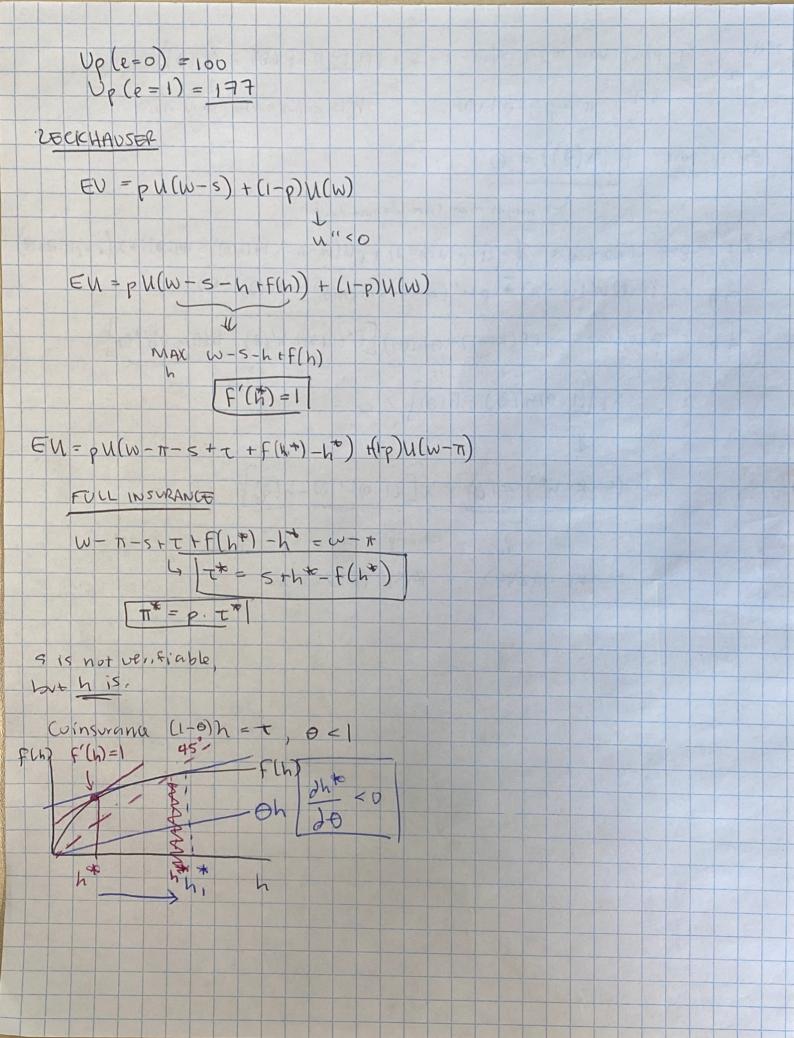
optimal contract is
$$w^* = 121$$
 when $1^* = 1$ $w^* = -\infty$ $e^* = 0$

CASE 2: e is UNOBSERUEP

MIN BULL SUH S.t. ~ EVA = 10, e = 0 HW

- take money, no 100





(1-P)U(W-T)+PA(W-T-S+f(h(0))2hXD)-Oh(0)) MAX π, Θ S.t. T = p(1-0)h(0) his endogenous coinsurance Su 24- POST: f'(b(0)) = 0 G means more care demanded FIRST ORDER CONDITIONS of = (1-p)u(w-T) + pu(w-T-s+F(h(0))-0h(0))+) (T-p(1-0h(0)) dπ = -(1-P) u'(w-π) + pu'(w-π-s+f(h(θ)) - 0h(0)) + λ = 0 do = pu'(w-π-s+f(h(θ))-θh(θ)) [f'(h(θ)).h'(θ)-h(θ)-θh'(θ)]xp((1-0)h'(0) -h(0) = 0 72(0) M'(Sick, ht) Z(d) = \[(1-0)h'(d) - h(d) \]

Por chury in premiums Py(d)

MORAL HAZARD = RISK PROTECTION