6000 - 1000 - mo S&

IR:

e, : Vr, -50 %0

ez: Tr - 30) 0

e3: \rac{r_3}{-10}%

In equilibrium we must have these three conditions to bind be souse if the one of them doesn't bind then insurer can reduce r to increse his pay off 50 because of maximization of the Insurer we must have these sinequalities to bind. ?

=> r₁=2500, r₂=900 - r₃=100 so insurer choose r3 = 100 and e3 under symmetric information

e: EB = -30k-r = -30k-100 2500

ez: 6(B) = -37.5" - 900

EB(e,) > E (B(ev)) EB(e1) > EB(e3)

e3: E(B) = -45 - 100

=> insurer prefer e, and r=2500

we must have \$ 6B > U => P > U + 30 + 2500 لا متحد ورود م الله المه لنده ما ورا الربيم لذ. مافرض رسي فوق بورن بير لنده

, 18 x 62

```
part 1, 3
                       مال الله تسويق رادم فاراع د = ۲۲ ما
                                                                           الم ارواقع مای مے اسرہ عراس ا
                                                                                                           man 0.2 (-50 - VH) + 0.8 (-25-rg) = -30 - 0.21/4 -0.8/2
                    e=e1.
                                                                                                             TR: 0.2 (4 + 0.8 / - 50 ) 0
(WHZT
                                                                                                        IC1: 0.2 Try + 0.3 Try - 50 > 0.5 Try + 0.5 Try - 30
                                                                                                                                                                                0.2x + 0.8y-50 } 0.8x + 0.2y 1-10
              l= -30k -0.21 -0.87e + 1, (0.2 1 N+0.8y-50)+/2(-0.3x+0.3y-20)
                                                                                                                                                                                                                                                                     + 13 (-0.6x + 0.64 -40)
        (r_{H}): -0.2 + \frac{0.1 \lambda_{1}}{x} - \frac{0.3 \lambda_{2}}{2x} = 0
  [Y_{\ell}]: -98 + \frac{0.4\lambda_{1}}{y} + \frac{0.3\lambda_{2}}{2y} + \frac{0.3\lambda_{3}}{y} = 0
                                                                                                                  \int_{C_2}^{C_2} \frac{1}{(2 + 6)^2} \int_{C
                                                                                                                                                                                                                                                                                0.2x + 6.8 y = 50
                                        IC, , IC2 is lul => => \lambda \lambda
                                                                                         "OIR = > 0.2x + 0.8y = 50 => x = -3
                                                                                                                                                                                                                                         William = 0.32 + 1.34 = 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -:X⋅
                                                                                                                                                                                                                                                                                                                                                                                                       ے درائی طارت حولی اراء ؟ .
```

- 37.5 0.5 rH - 0.5 rg e=ez rure IR: 0.52 +0.5y-30 >0 >, 0.2x+0.8y-50 ICI Icz > 0.82 + 0.2y-10 IC1: +.0.3x-0.3y > -20 Icz: -0.32+0.39 }-10 IR (=> .0.5+0.5y = 30 in ICI , Finitice chop = 1 0.3 - 0.3y = -20 x = 46 0.5x+0.5y 230 -0.32 + 0.3y = -10 => y=13خ ص رفع استدر المرادع 2046 0.3×46-0.3×13), -20 √ => => => حفظ الناوات مولور المس y ~ (3 x 246 => VH = 46.6 => Vre = 13.3 -45 n - 0.2 M - 0.2 Me max JU, MITE e= e3 0.8x +0.2y -10 } 0 > 0.2n+0.84-50 11 IC, \$ 0.5x + 0.5y -30 -7×23 $0.6 \times -0.6 \text{ } = -40$ $0.6 \times -0.6 \text{ } = -40$ ICZ 11 0.8 x + 0.2 / 2 10 In mind الم الم دنعة بعيكرات かっていったかましょう वंद्याने निर्माणिय , . iden, IR, Ic2 0.3x -0.34 2-20

.....

part (2): $\sqrt{r_H} = 46.6 \implies r_H = 2171.56$ $\vec{r}_H = 13.3 \implies r_g = 176.89$

٧