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Step 3 write the beliman expectation equations vir (anny)
                  General from:
                    1/4 (5) = (4(5) + 1/2 PT (5,5') VT (5')
F) find V, = ??
                                         ( Find V2=?? = Fance to + The boil ()
     V, = 0 + 0.9 (0.89 v, +0.15 v2)
                                               V2 = 2 +0.9 (0.55v, +0.65v2)
     V, = 0 + 0.765 y, + 0.135 y2
                                              V2 = 2 + 0.315v, + 0.585 v2
     V, -0.765 V, $ 0.135 V2 - 0
                                               V2-0.315V, -0.585V2=2
     0.235 v, $ 0.135 v2 = 0 1 =
                                          - 0.315V, + 0.415V2 = 2
Step 4: Solve For VI ( ( loudy )
                                      ( cloudy) = ??
      1 0.235y, - 0.135 y2 =0
                                      -0.315V1 + 0.415V2 = 2
       0.235 V, = 0.135 V2
                                   = \left(-0.317 \times \frac{0.135}{0.135} \text{ Ve}\right) + 0.415 \text{ V2} = 2
        V, = 0.135 12
                                   = (-0.315 × 0.574468V2) + 0.415V2: +2
             0.235
                                   = -0.1809 + 0.415 /2 = 2
                               TP 0 7 0.41912 5 0.1809 +28.0 x 7.0 =
                                   VII (cloudy) = 0.1809 +2
                                                           2.1809 = 5.26
                                      + 1.0 = 1.0.4150 + 2.0 0.415
8) VT ( SUNNY ) = 53
      V, = 0.135 V2
                         V, = 0.135 (5.24) 0.7101
                                          D. 235
          0.235
                                0.235
step 5: Write the beliman optimality equations.
        beneval + from = V*(5) = max 2e(s,a) + 45\p(5' 15,a) V*(5')}
Find runny (v.) using Go to school:
                                                  Find clonay (V2) nting Got to schoot:
(9) 1* (sunny) = ??
                                                  (1) 1 * ( cloudy ) = 88
    V* (runny) = 5 + 0.9 (0.8 v, + 0.2 ve)
                                                     V* (conty) = 3 + 0.9 (0.4 v, + 0.6 v2)
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From the runny cquation:

using the equation for doudy,

$$-0.36\left(\frac{5+0.18}{0.28}\right)+0.4642=3$$

$$-0.36 \times \frac{5}{0.28} = -6.429$$

$$\frac{-0.34 \times \frac{0.18}{0.28} = -0.231 \text{ V}_2}{0.28}$$

$$-6.429 - 0.231v_2 + 0.46v_2 = 3$$

a (1 + ac) = 5 + 0. 9 (0.51) 7010) = 34. 60

19: FE = (0.280+ve.0) P.O+1 = (super 2) P

Stive for VA (dunny)

