Honework 11

$$20.5 \times 2 + 0.5 \times 2$$
  
 $= (+1)$ 

b) 
$$R(3,a_{1},S) = 0.6$$
,  $R(3,a_{2},S) = 2$   
 $V(3,a_{1}) = \sum_{t=0}^{\infty} V^{t}$ .  $E(1+t) = 0.6$   
 $V(3,a_{1}) = 0.6 = 0.6 = 6$   
 $V(3,a_{1}) = 0.6 = 0.6 = 6$ 

$$v(s; a_2) = \frac{2}{1-0.9} = \frac{2}{0.1} = 20$$

a) 
$$S = \{ s_1, s_2 \}$$
  $A = \{ a_1 \}$   
 $P(s_2 | s_1, a_2) = 1$ ,  $P(s_1, a_1, s_2) = 3$   
 $P(s_1 | s_2, a_2) = 1$ ,  $P(s_2, a_1, s_1) = 2$   
 $T(a | s_1) \ge T(a | s_2) = 1$ 

V= 0.5

$$v_{H}(s_{1}) = 2 + 0.5 v_{H}(s_{2})$$
 — (1)  
 $v_{H}(s_{2}) = 2 + 0.5 v_{H}(s_{1})$  — (2)

$$\left[\begin{array}{c} V_{W}(S_{\Delta}) \geq \frac{14}{3} \end{array}\right]$$