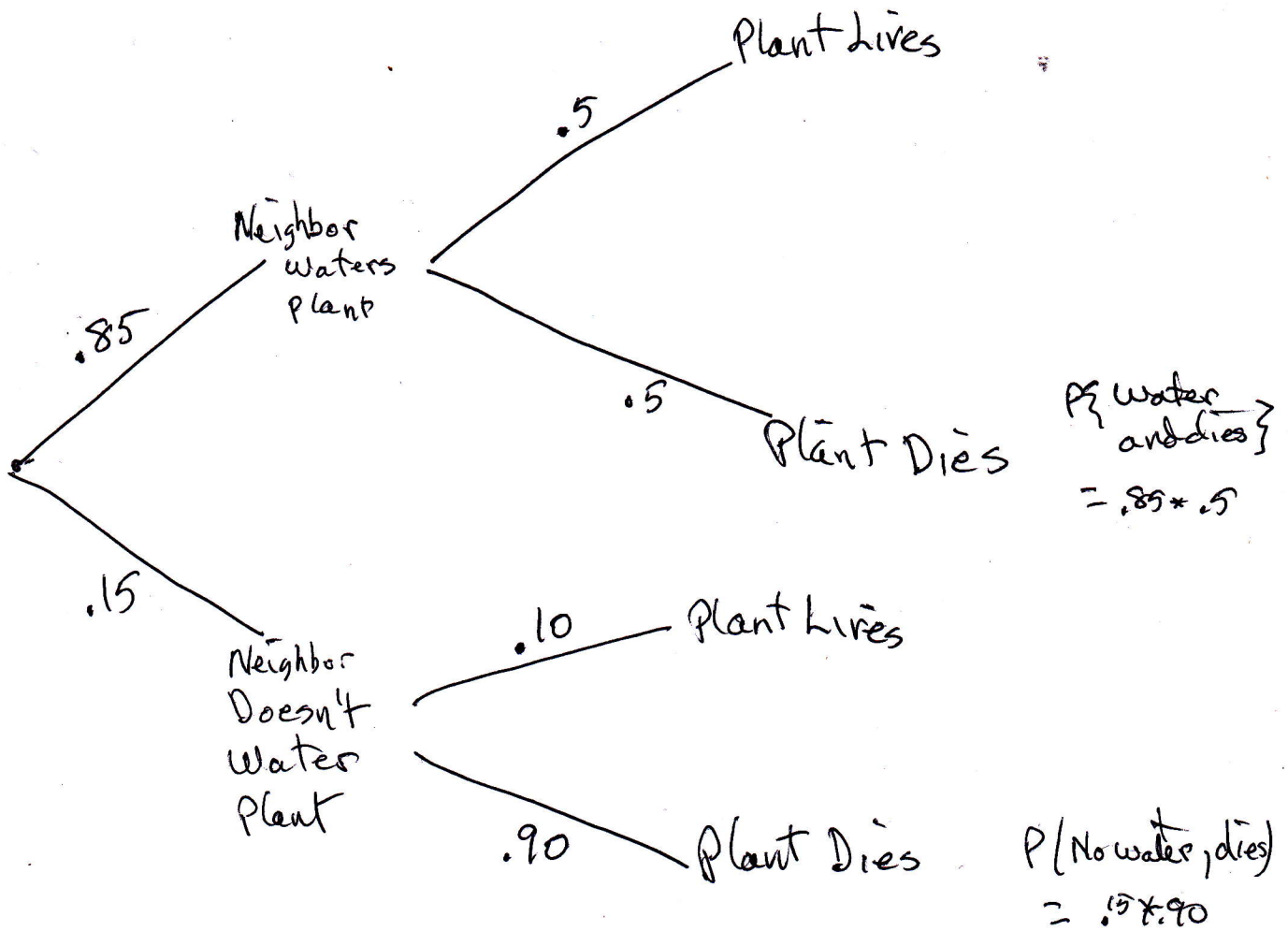


HW7 - Problem 2



$$P\{\text{Neighbor did not water plant} \mid \text{Plant Dies}\} =$$

$$\frac{P\{\text{Neighbor no water and Plant Dies}\}}{P\{\text{Plant Dies}\}} = \frac{0.15 * 0.90}{0.85 * 0.5 + 0.15 * 0.90}$$

$$P\{\text{Plant Dies}\} = P\{\text{Plant Dies and water}\} + P\{\text{Plant Dies and no water}\}$$

$$= 0.85 * 0.5 + 0.15 * 0.90$$