1.
$$P(+u|+e) = \frac{P(+u,+e)}{P(+e)}$$
First compute $P(+u,+e)$.
$$P(+u,+e) = \underset{h}{\leq} P(h) \underset{i}{\leq} (+u|i,h) \underset{i}{\leq} P(t|i) \cdot P(i) \cdot P(+e|t,+u)$$

$$= \underset{h}{\leq} P(h) \underset{i}{\leq} (+u|i,h) \underset{i}{\leq} P(t|i) \cdot P(t|i) \cdot P(+e|t,+u)$$

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$$= \underset{i}{\leq} P(h) \underset{i}{\leq} P(h|i,h) \cdot P(h|i) \cdot P(h|i,+u)$$

$$= \underset{i}{\leq} P(h|i,h) \cdot P(h|i) \cdot P(h|i,+u)$$

$$= \underset{i}{\leq} P(h|i,h) \cdot P(h|i,h) \cdot P(h|i,+u)$$

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$$= \underset{i}{\leq} P(h|i,h) \cdot P(h|i,+u) \cdot P(h|i,+u) \cdot P(h|i,+u) \cdot P(h|i,+u)$$

$$= \underset{i}{\leq} P(h|i,h) \cdot P(h|i,+u) \cdot P(h|i,$$

Now compute
$$f_3 = \frac{1}{2} P(h) f_2(h)$$

$$= 0.6 \times 0.6618 + 0.4 \times 0.2046$$

$$= 0.47892$$
As a result, $P(tu, te) = 0.47892$
To calculate, $P(te) = P(tu, te) + P(-u, te)$

$$= \frac{1}{2} P(h) \frac{1}{2} (-u) i_1 h_1 \frac{1}{2} P(te) \cdot P($$