## PBE of Gift Game and Gift Game 2

## 1. Gift Game $(p < \frac{1}{2})$

 $(N^FN^E,R)$  is a BNE. Letting q denote pr(F|gift), any belief is consistent. R is seq. rational if  $q \leq \frac{1}{2}$  (look at the game tree to compute this).

## 2. Gift Game $(p \ge \frac{1}{2})$

 $(N^FN^E,R)$  is a BNE. Letting q denote pr(F|gift), any belief is consistent. R is seq. rational if  $q \leq \frac{1}{2}$ .

 $(G^FG^E,A)$  is a BNE. The only consistent belief is q=p (look at the game tree). Strategies are seq. rational.

## 3. Gift Game 2

 $(N^FN^E,R)$  is a BNE. Letting q denote pr(F|gift), any belief is consistent. R is never seq. rational (look at the game tree). Not consistent with PBE.

 $(G^FG^E,A)$  is a BNE. The only consistent belief is q=p (look at the game tree). Strategies are seq. rational.