Normalise to 3NF

1. R(<u>a</u>, b, c, R1(<u>d</u>, <u>e</u>)) with FD's:
   $a \rightarrow \{b, c\}$
   $c \rightarrow \{d, e\}$
2. R(<u>a</u>, <u>b</u>, c, d, e, {f}) with FD's:
   $\{a,b\} \rightarrow c$
   $a \rightarrow d$
   $c \rightarrow e$
3. R(<u>a</u>, <u>b</u>, c, d, e, {f}) with FD's:
   $b \rightarrow c$
   $a \rightarrow d$
   $c \rightarrow e$

1. R(a, b, c, R1(d, e)) with FD's:

   a → {b, c}

   c → {d, e}

R'(a, b, c) R1(a, d, e)

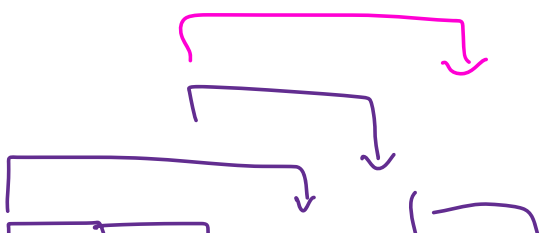
R' & R1 in 1NF & 2NF & 3NF

R(a, b, c, d, e) ✓1NF

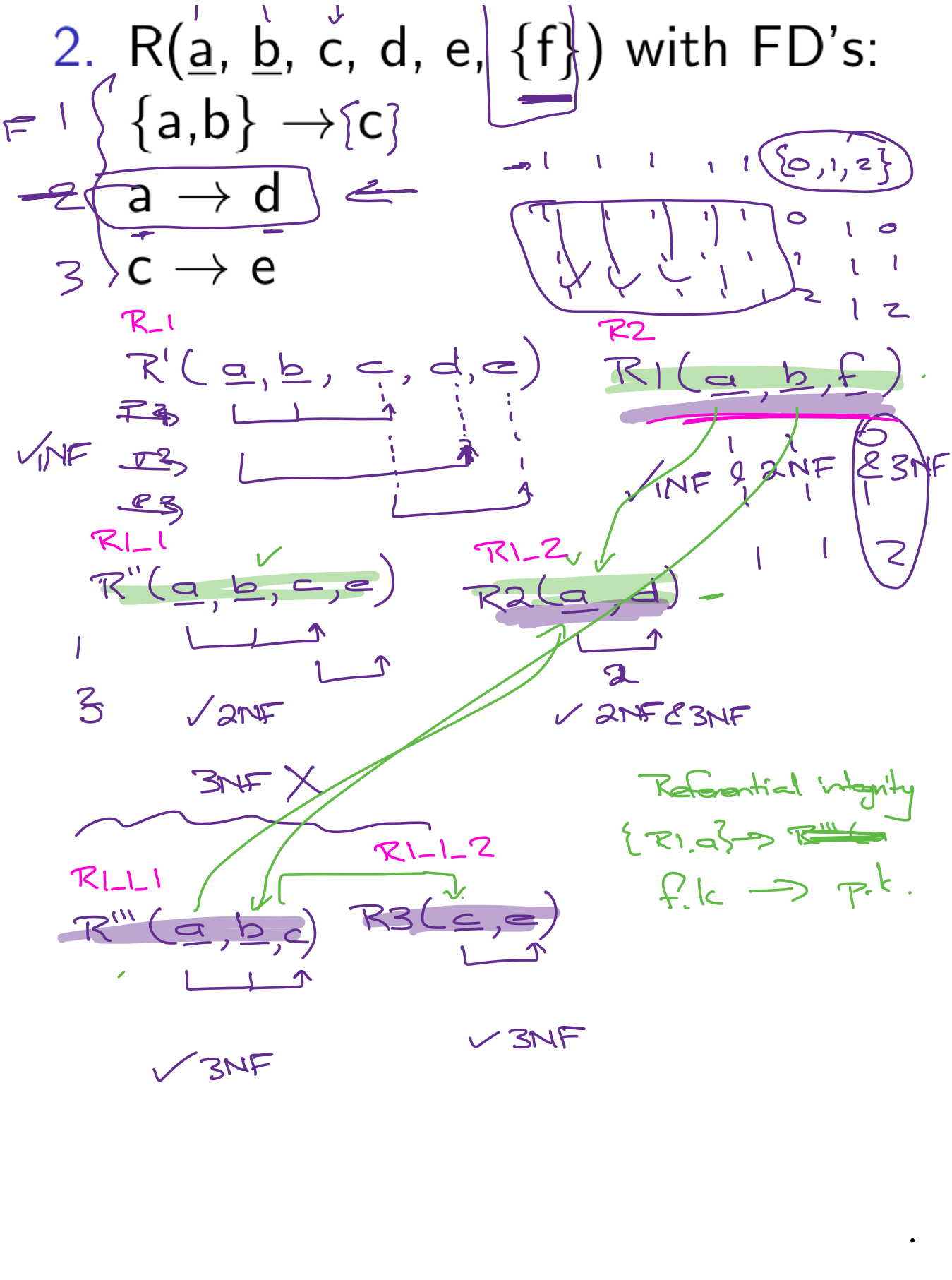
2NF?

R(a, b, c, d, e) ✓1NF & 2NF

3NF?



2. R(a, b, c, d, e, {f}) with FD's:



3. R(<u>a</u>, <u>b</u>, c, d, e, {f}) with FD's:
   $b \rightarrow c$
   $a \rightarrow d$
   $c \rightarrow e$