1.3  $[e/x](e_1, e_2) = ([e/x]e_1, [e/x]e_2)$  $[e/x](let pair (x,y) = e_1 in e_2 end) = (let pair (x,y) = [e/x]e_1 in e_2 end] provided x,y <math>\notin FU(e)$ 

1.5. <u>e: T1 e2: T2</u> T-Pair X=T. Y=T2 e1: (T1 \* T2)

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1.7. <u>e. v. v. e. v. v.</u> (e., e.) V (v., v.)

let pair  $(x,y) = e_1$  in  $e_2$   $\forall V$ 

- 2.1 FV (|ste) FV(e) = FV(|ste) U FV(sndr)

  FV(let FV(|ste) = FV(|ste) FV(|ste FV(|ste))=FV(e)

  FV(snd e) = FV(snd (e, \*e)) = FV(e)
- 2.2. [e/x] (fit e'J = [e/x] (fit  $(e_1 x e_2)) = [e/x] e_1$ [e/x] (Sind e'J = [e/x] (Sind  $(e_1 x e_2)) = [e/x] e_2$