$$\frac{(\lambda x.E)M}{((lombda(x)(+1x))5)} = \sum_{E} M$$

$$(+1x)[5/x7 = x)(+15)$$

2. Free and Bound Variables

$$(\lambda x. \lambda y. xy)$$

$$(\lambda x. \lambda y. xy) (((\lambda w)) = 2$$

$$\frac{1}{\lambda y. \times y} \left[ \frac{(yw)}{x} \right]$$

$$\frac{\lambda 1... \left( \frac{(xy)[1-/y]}{(yw)/x} \right) \left( \frac{(xy)[1-/y]}{x} \right) \left( \frac{(yw)}{x} \right) = 0}{\lambda 1... \left( \frac{(xw)}{x} \right) 1...}$$

3. Substitution Algorithm (Slike 20) () K. E) M => E[M/x] E can be variable or Mbs, or App recursively defined Algorithus aggressively renames parameters.  $(\lambda y. \lambda z. kyz)[v/x] =>$ ( by. bz. y y z ) 4. (xx xy. 22. xyz) v => \lambda y. \lambda 2. \lambda \gamma 2