function ELIMINATION-ASK (X, \mathbf{e}, bn) **returns** a distribution over X **inputs**: X, the query variable

e, observed values for variables **E** bn, a Bayesian network specifying joint distribution $\mathbf{P}(X_1, \dots, X_n)$

 $factors \leftarrow []$

factors $\leftarrow []$ for each var in Order(bn.Vars) do $factors \leftarrow [\text{MAKE-FACTOR}(var, \mathbf{e})|factors]$ if var is a hidden variable then $factors \leftarrow \text{SUM-Out}(var, factors)$

return NORMALIZE(POINTWISE-PRODUCT(factors))