y = torch.cumsum(x, dim, out=None, dtype=None)

Require : $|X| = (d_1, \cdots, d_\ell)$

$0 \le dim < \ell$

Guarantee : $|Y| = (d_1, \cdots, d_\ell)$

$\sigma \vdash E \Rightarrow e, c$

$k = rank(e)$

$c' = \{(k \ge 1) \wedge (0 \le p < k)\}$

$\sigma \vdash cumsum(E, p) \Rightarrow e, c \cup c'$

Description: cumulatively adds elements dim-dimensionwise

when dim = -1, last dimension is chosen.