$y = \text{torch.topk}(x, k, dim=n, \_, \_)$

Require : $|X| = (d_1, d_2, \cdots, d_e)$,
$0 \le n < l$, $k \le d_n$

Guarantee : $|y| = k$

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

$\sigma \vdash n \Rightarrow c'$

$\sigma \vdash l \Rightarrow c''$

$k = \text{rank}(e)$

$d'' = \{(k \ge 1) \wedge (0 \le n < k) \wedge (0 \le l < e[n+1])\}$

$e' = l$

$\sigma \vdash \text{torch.topk}(E, l, n) \Rightarrow e', c \cup c' \cup c'' \cup c'''$

Description returns tensor of topk elements of given tensor dim-dimension wise.
and tensor of its indices respectively

- $\text{torch.topk}(x, k, \_, \_) = \text{torch.topk}(x, k, x.\text{size}(-1), \cdots)$