$J_{\cdot} v$
$v_{\cdot}^T J$
$v^T F'(x) = \dot{y}\dot{y} = P\Phi_l'(V_l) \cdot \Phi_{l-1}'(V_{l-1}) \dots \Phi_1'(V_1) \cdot Q \cdot \dot{x}$
$\dot{x} = \bar{y}^T P\Phi_l'(V_l) \dots \Phi_1'(V_1) \cdot Q$
$_{i-n} = x$
$_i = \varphi_i(v_j)_{j \prec i}$
$_{m-i} = v_{l-i}$
$\bar{y}^T P \bar{v}_{l-i} = \bar{y}_{m-l}$
$\bar{v}^T \Phi'(\dots) \bar{v}_j = \sum_{i \succ j} \bar{v}_j$