$$f(x_1, x_2) = e^{x_2}(x^2 - x_1/x_2)$$

For function f - Draw the computation graph, Fill in the blanks for the forward pass AD and reverse pass AD tables at $(x_1, x_2) = (1, 2)$

Part 1 - Computation Graph

Forward Primal Trace

v_{-1}	$= x_1$	$= 1$
v_0	$= x_2$	$= 2$
v_1	$= e^{v_0}$	$= 7.389$
v_2	$= v_{-1}^2$	$= 1$
v_3	$= \frac{v_{-1}}{v_0}$	$= 0.5$
v_4	$= v_2 - v_3$	$= 0.5$
v_5	$= v_4 v_1$	$= 3.694$
y	$= v_5$	$= 3.694$

Part 2 - Forward Tangent Trace (Find $\frac{\partial f}{\partial x_1}$)

$\dot{v}_{-1}$	$=$	$= 1$
$\dot{v}_0$	$=$	$= 0$
$\dot{v}_1$	$=$	$= 0$
$\dot{v}_2$	$=$	$= 2$
$\dot{v}_3$	$=$	$= 0.5$
$\dot{v}_4$	$=$	$= 1.5$
$\dot{v}_5$	$=$	$= 11.08$
$\dot{y}$		$= 11.08$

Part 3 - Reverse Adjoint Trace

$\bar{v}_{-1}$	$=$	$= 11.08$
$\bar{v}_0$	$=$	$= 5.54$
$\bar{v}_1$	$=$	$= 0.5$
$\bar{v}_2$	$=$	$= 7.389$
$\bar{v}_3$	$=$	$= -7.389$
$\bar{v}_4$	$=$	$= 7.389$
$\bar{v}_5$	$=$	$= 1$