The computational graph shows:
- $w_1 \to v_1 = \log w_1$
- $v_2 = w_2 v_1$
- $v_3 = \sqrt{v_2}$
- $L = v_2 + v_3$
- w_2 feeds into v_2

$$\frac{\partial L}{\partial v_3} \leftarrow v_3 = \sqrt{v_2} \leftarrow \frac{\partial L}{\partial L}$$