Gradient Calculations.

$$|V| = \frac{V'R}{|V|}$$

$$|V| \rho(R)$$

$$= \sqrt{V_R}$$

$$= \sqrt{V_1} x_1 + \sqrt{v_2} x_2 + \sqrt{v_3} x_3$$

$$= \left(\begin{array}{c} v_1 \\ v_2 \\ v_3 \end{array}\right) = \sqrt{V_1}$$

$$|\nabla v| = |\nabla v$$