Inver loop

$$F = \begin{bmatrix} r_2^{\text{piren}} - r_2^{\text{piop}} \\ r_n^{\text{piop}} - r_2^{\text{piop}} \end{bmatrix}$$

$$= \begin{bmatrix} \frac{3r_1^{\text{piop}}}{3v_0} \\ -\frac{3r_2^{\text{piop}}}{3v_0} \\ -\frac{3r_2^{\text{piop}}}{3v_0} \end{bmatrix}$$