

$$\begin{array}{rcl} \sigma_0 & = & x_2 - x_1 \\ \sigma_1 & = & \sigma_0 - 2(y_2 - y_1) \\ \sigma_2 & = & \sigma_1 - 2(y_2 - y_1) \\ \sigma_3 & = & \sigma_2 - 2(y_2 - y_1) \end{array} \quad \begin{array}{l} \sigma_0 > 0 \\ \sigma_1 \leq 0 \\ \sigma_2 \leq 0 \\ \sigma_3 \leq 0 \end{array}$$