

















- □ The method converges with good initial guesses
- □ The problem is to give good guesses
- Continuation method is one powerful method

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Continuation Method

- □ Here a set whose roots are known is considered
- □ The simplest way is to generate from the orignal function with an arbitrary initial guess

$$F_{I}(x, y) = f_{I}(x, y) - \theta f_{I}(x_{0}, y_{0})$$

$$F_2(x, y) = f_2(x, y) - \theta f_2(x_0, y_0)$$

 \Box For Theta = 1, (x₀,y₀) are the roots for F₁ and F₂

□ The value of Theta is gradually reduced from 1 to 0 and the set is solved every time with the previous roots as the guess.
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