



2.
$$\frac{xy+2x+y+\frac{5}{2}}{f(x,y)} = 0$$

$$f(x,y) = xy$$

$$A = \begin{pmatrix} 0 & \pm \\ \pm & 0 \end{pmatrix} \quad \begin{vmatrix} -\lambda & \pm \\ \frac{1}{2} & -\lambda \end{vmatrix} = 0$$

$$\frac{1}{2} \frac{1}{2} \left\{ -\frac{1}{2} \times + \frac{1}{2} y = 0 \right\} \times = y = 0$$

$$\frac{1}{2} \times + \frac{1}{2} y = 0$$

$$\frac{1}{2} * + \frac{1}{2} y = 0$$

$$U = \left(\frac{1}{52} - \frac{1}{52}\right) \begin{pmatrix} x' \\ y' \end{pmatrix} = \frac{1}{52} + \frac{1}{52} \begin{pmatrix} x' \\ y' \end{pmatrix} = \frac{1}{52} + \frac{1}{52} \begin{pmatrix} x' \\ y' \end{pmatrix} = \frac{1}{52} + \frac{1}{52} \begin{pmatrix} x' \\ y' \end{pmatrix} = \frac{1}{52} + \frac{1}{52} \begin{pmatrix} x' \\ y' \end{pmatrix} = \frac{1$$

$$\int_{(x,y)}^{(x,y)} = 2x + y = 2\left(\sqrt{x} x' - \sqrt{x}y'\right) + \sqrt{y} x' + \sqrt{y}y' = \frac{2}{\sqrt{x}}x' - \sqrt{x}y'$$

$$\frac{1}{2}(x')^{2} - \frac{1}{2}(y')^{2} + \frac{3}{\sqrt{x}}x' - \sqrt{y}}{\sqrt{x}}y' \Rightarrow xo + \frac{5}{2} = 0.$$

$$\frac{1}{2}(x')^{2} + \frac{3}{\sqrt{x}}x' + \frac{3}{2} - \frac{1}{4}(y')^{2} + \frac{3}{\sqrt{x}}y' + \frac{1}{2}x' + \frac{5}{2} = 0.$$

$$\frac{1}{2}(x')^{2} + \frac{3}{\sqrt{x}}x' - \frac{1}{2}(y' + \sqrt{y})^{2} - \frac{3}{4} + \frac{1}{3}x + \frac{5}{2} = 0.$$

$$\frac{1}{2}(x' + \frac{3}{\sqrt{x}})^{2} - \frac{1}{2}(y' + \sqrt{y})^{2} - \frac{3}{4} + \frac{1}{3}x + \frac{5}{2} = 0.$$

$$\frac{1}{2}(x' + \frac{3}{\sqrt{x}})^{2} - \frac{1}{2}(y' + \sqrt{y})^{2} = -\frac{3}{4}x' + \frac{1}{3}x + \frac{5}{2} = 0.$$

$$\frac{1}{2}(x' + \frac{3}{\sqrt{x}})^{2} - \frac{1}{2}(y' + \sqrt{y})^{2} = -\frac{3}{4}x' + \frac{1}{3}x + \frac{5}{2} = 0.$$

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$$\frac{1}{2}(x' + \frac{3}{\sqrt{x}})^{2} - \frac{1}{2}(y' + \sqrt{y})^{2} = -\frac{3}{4}x' + \frac{3}{2}x' + \frac{3}{2}x$$