Problem 3 ciał Fix, Fig, Fix, Fig G m₁m₂ R² $\left(\times_{1}, y_{1}, \times_{2}, y_{2} \right) \rightarrow$ $\frac{G m_1 m_2}{R}$ $= \left| \left(\times_{i} - \times_{j} \right)^{2} + \left(y_{i} - y_{j} \right)^{2} \right|$ Gm, mz V[xi-xj)2+(yi-yj)2

$$F = \frac{Gm_1m_2}{r^2} \cdot \frac{1}{r^3}$$

$$F_{x} = \frac{Gm_1m_2}{r^3} \cdot (x_j - x_i)$$

$$F_{y} = \frac{Gm_1m_2}{r^3} \cdot (y_j - y_i)$$

 $\overline{\mathcal{T}} = (\times_{j} - \times_{i}) \hat{i} + (y_{i} - y_{i})$

$$F = Gm_{1}m_{2} (y_{1} - y_{1})$$

$$x_{1} = -1 y_{1} = 0$$

$$m_{1} = 1 m_{2} = 1$$

$$f = -\frac{1}{4}$$

$$F = \frac{(m_1 m_2)}{(y_1 - y_2)}$$

$$x_1 = -1 \quad y_1 = 0$$

$$m_1 = 1 \quad m_2 = 1$$

$$\frac{1}{4} \quad \frac{-1}{4} \quad \frac{1}{2^2} = \frac{1}{4}$$

$$x_2 = 1 \quad y_2 = 0$$