TP3
3!)
a)
$$m=5kp$$
 $f^{2}=(-2y+1)\frac{1}{6y}+(-2n-2)\frac{1}{6y}$
 $y=\frac{m}{2}$
 $\infty = (-2\frac{m}{2})+4$
 $dn + (-2\frac{m}{2})+2$
 $dn + (-2\frac{m}{2})+4$
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$$W = \Delta E_{0} = E_{0}f - E_{0}i.$$

$$E_{0} = \frac{1}{2} \cdot 3 \cdot 5^{2} = .37.5$$

$$-30.9 = E_{0}f - 37.5 \Leftrightarrow E_{0}f = 6.6 \Leftrightarrow \frac{1}{2} \cdot 3 \cdot y^{2} = 6.6$$

$$\Rightarrow V^{2} = 9.9 \Leftrightarrow V = 2.1 \text{ m/s}$$
3.3)
a) $\beta_{i,j} = m_{i} V_{i,j}$

$$\beta_{i,2} = 0 \Leftrightarrow m_{i} V_{i,j} = m_{i} V_{i,j} + m_{2} V_{i,j} + m_{2} V_{i,j} \cdot eas(\theta_{0})$$

$$Y: \begin{cases} 0 = m_{i} V_{i,j} \cdot sen(\theta_{0}) + m_{2} \cdot V_{i,j} \cdot sen(\theta_{0}) \end{cases}$$

$$\frac{V_{0}f}{V_{0}f} = \frac{m_{0} \cdot sen(\theta_{0})}{m_{1} \cdot sen(\theta_{0})}$$
b) $m_{1} = m_{2} \cdot \theta_{1} = 45 \cdot \theta_{2} = 30^{\circ}$

$$\begin{cases} 0 & V_{i,j}^{2} = V_{i,j}^{2} + V_{i,j}^{2} = V_{i,j}^{2} + V_{i,j}^{2} = V_{i,j}^{2} + V_{i,j}^{2} + V_{i,j}^{2} = V_{i,j}^{2} + V_{i,j}^{2} + V_{i,j}^{2} = V_{i,j}^{2} + V_{$$