30053 = 52,36 m

$$J = Sp = M_b(\Sigma_F - \Sigma_1)$$

$$F = \frac{1}{t} = \frac{M_b(\Sigma_F + \Sigma_1)}{0.02} = 0.4285 \cdot 58.33$$

$$= 958/864881 1249,72N$$

$$Answer = 938/84 1249,72N$$

Problem 2

troblem 2

$$v_x = v_0 \cos 60^\circ = \frac{v_0}{2}$$
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Let's find time before the fall.

 $v_0 = v_0 - \frac{gt^2}{2} = v_0 =$

```
Problem 3
       M. V. + M2; V2; = M, V1, + M2 V28 (momentum law)
                                                                       for 1-st and 2-nd
             10m, . m, Wif im W25
         m, Wif = m, Wif
                                           ( momentum law ) for z-nd and z-rd
             m2 30 = 30
              V2F = 30
           10m, = m, v, f +30 6> v, = 10m, -30
              Let's write energy law:

\frac{m_1 v_1^2}{2} - \frac{m_1 v_{1r}^2}{2} = \frac{m_2 v_{2i}^2}{2}

\frac{m_2 v_{2i}^2}{2} = \frac{m_3 v_{3f}^2}{2} \iff m_2 v_{2f}^2 = 150

                  100m_1 - \sqrt{150} m_1 = 150
m_1 = \frac{150}{100 - \sqrt{15}}
             1505, -1500 +3000 -305, = 0

Viè -50, -50 = 0 (=) | Vie = -5 m/s
The answer is \overline{v_{i_F}} = -s m/s, because \overline{v_{i_F}} = 10 m/s contradicts the statement of a problem.
      Problem 4
  J = F_{avg} St \iff St = F_{avg} = \frac{56.85}{120000 - mg^2} 0.04 S
-mg + F = ma \iff 2 = \frac{mg + F}{m} = \frac{120000 - 85.90}{85} 1401.96 m/s^2
X = 35 - \frac{at^2}{2} = 56.0.04 - \frac{1401.96.0.04^2}{2} 21.116m
          p = m v = 85 56 = 4760
                      Answer (a) 1,118m (b) st=0,045 (c) 4760 kg/s
```