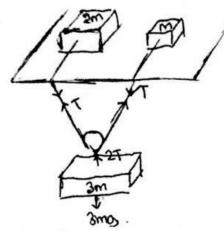


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substitute 2, & 22 to (1)

d. when
$$A = -10 \text{ m/s}^2$$
, $F_2 = (2.-10-80) = 1-20 \text{ megative } x-20 \text{ m/s}^2$, $F_2 = (2.-20-30) = 1-20 \text{ megative } x-20 \text{ m/s}^2$

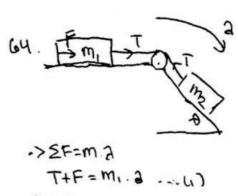
D:10° Fh = Book N 42.

× AXIS Fn cos 4- Fw = m. 2

(SIXE- X

*SF=m.2 $m_2.g-T=m_2.2...(1)$ *SF=m.a $T-m_1.g.sm\theta=m_1.a...(1)$ (1)+(2): $g(m_2-m_1.sm\theta)=a(m_1+m_2)$ $a=g(m_2-m_1.sm\theta)$ $a=g(m_2-m_1.sm\theta)$ $a=g(m_2-m_1.sm\theta)$ $a=g(m_2-m_1.sm\theta)$ $a=g(m_2-m_1.sm\theta)$ $a=g(m_2-m_1.sm\theta)$

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 $m_2.g.sm = T = m_2.3 - ...(2)$ 8. (1)+(2):

 $m_2.g.sm4 + F = alm_1 + m_2$) $1.918.sm30^0 + 2.3 = a(1.0 + 2.5)$ $a = 2.1 m/s^2$ $T = m_2(g.sm4-a)$ = 1(4.9 - 2.1)

= 2,8 N b- when T=0 > F=m1.2 -...(17 -> m2.9.5m0 = m2.2 _ (2) from (1) e(2):

F='m1.9.8m7 =2,5.8,8 sm(30°) =12 N