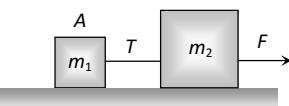
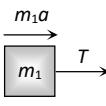
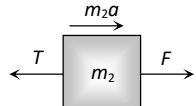
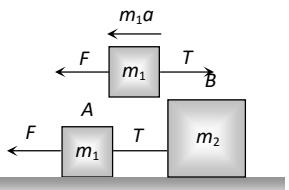
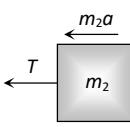
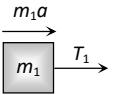
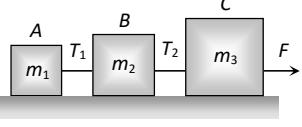
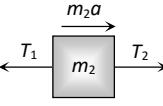
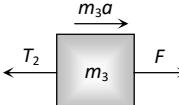
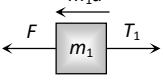
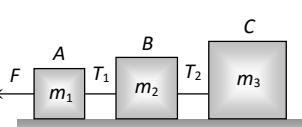
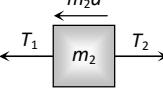
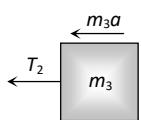


Motion of Blocks Connected by Mass Less String.

Condition	Free body diagram	Equation	Tension and acceleration
		$T = m_1 a$	$a = \frac{F}{m_1 + m_2}$
		$F - T = m_2 a$	$T = \frac{m_1 F}{m_1 + m_2}$
		$F - T = m_1 a$	$a = \frac{F}{m_1 + m_2}$
		$T = m_2 a$	$T = \frac{m_2 F}{m_1 + m_2}$

 	$T_1 = m_1 a$	$a = \frac{F}{m_1 + m_2 + m_3}$
	$T_2 - T_1 = m_2 a$	$T_1 = \frac{m_1 F}{m_1 + m_2 + m_3}$
	$F - T_2 = m_3 a$	$T_2 = \frac{(m_1 + m_2)F}{m_1 + m_2 + m_3}$
 	$F - T_1 = m_1 a$	$a = \frac{F}{m_1 + m_2 + m_3}$
	$T_1 - T_2 = m_2 a$	$T_1 = \frac{(m_2 + m_3)F}{m_1 + m_2 + m_3}$



$$T_2 = m_3 a$$

$$T_2 = \frac{m_3 F}{m_1 + m_2 + m_3}$$