

$$F_t - (2.0)g = 2.0a$$

$$0.8g - F_t = 0.8a$$

$$-F_t + 0.8g = 0.8a$$

$$-1.2g = 2.8a$$

$$a = \frac{-1.2(9.81)}{2.8} = -4.2 \text{ m/s}^2$$

$$\Delta x = 1.5 \text{ m}$$

$$\Delta x = v_i t + \frac{1}{2} a t^2$$

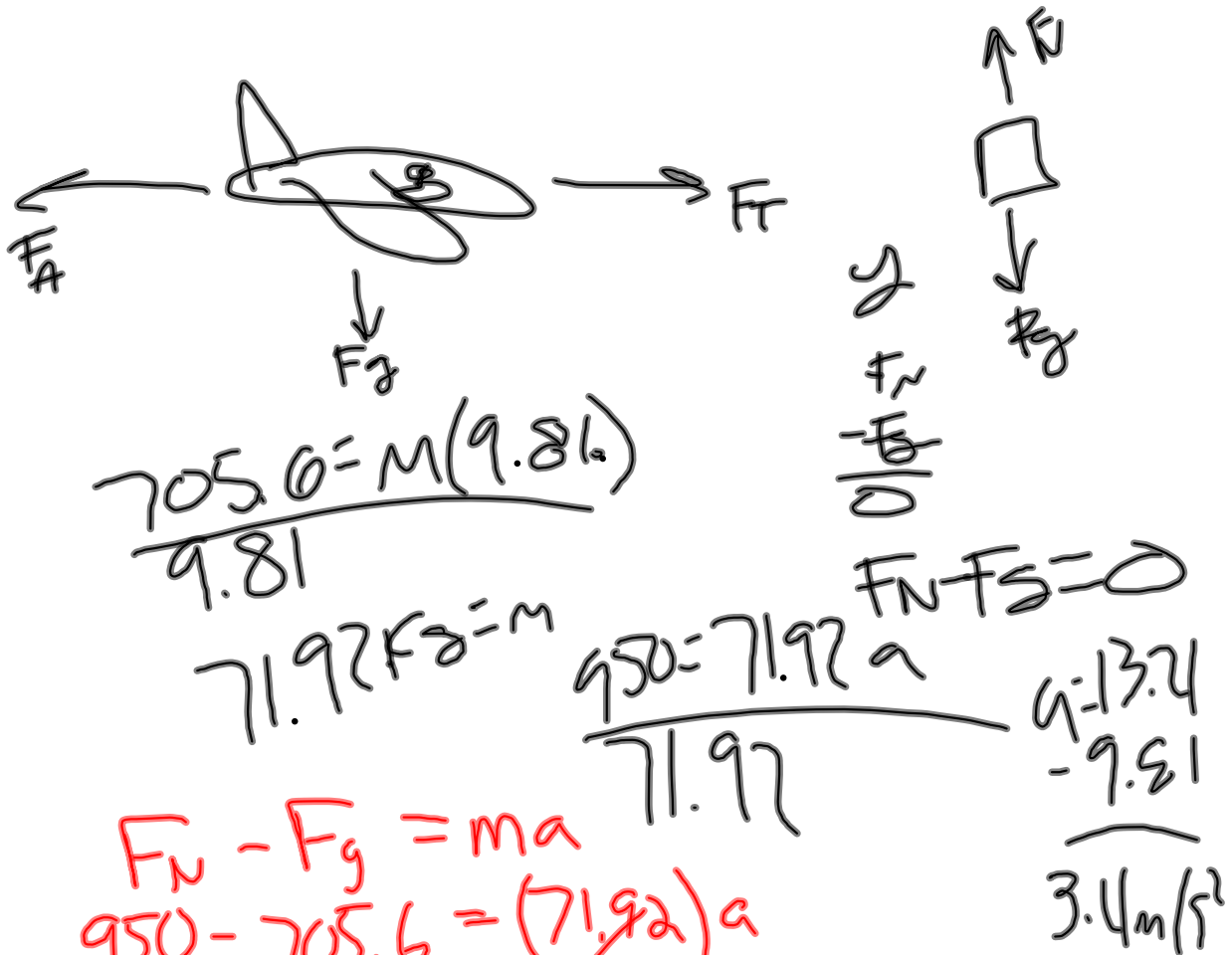
$$1.5 \text{ m} = \frac{1}{2} (-4.2 \text{ m/s}^2) t^2$$

$$1.5 = 2.1 t^2$$

$$t^2 = \frac{1.5}{2.1}$$

$$t^2 = 0.71$$

$$t = 0.845 \text{ s}$$



$$\frac{500}{71.92}$$

$$6.95 = a$$

$$-9.81$$

$$\underline{-2.85 = a \text{ m/s}^2}$$

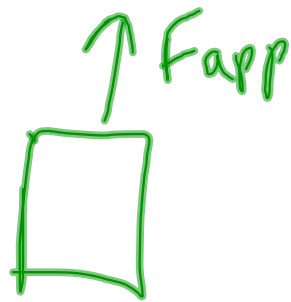
$$F_N - F_g = ma$$

$$500 - 705.6 = m a$$

$$\frac{-205.6}{71.92}$$

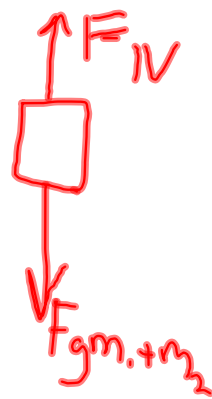
$$-2.85 = a$$

F_{app}



$$- \frac{F_g}{4N}$$

$$4N = F_{net} = ma$$
$$\frac{4N}{m} = a$$



X	Y
	F_N
	$F_{g_{m_1+m_2}}$

$$F_N - F_g = 0$$

$$F_N = F_g = (m_1 + m_2)g$$

$$22 \times 9.8 = 215.6 \text{ N}$$

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