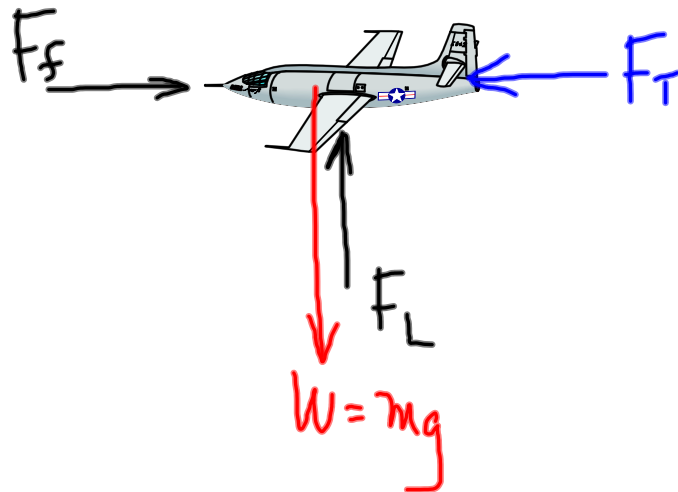
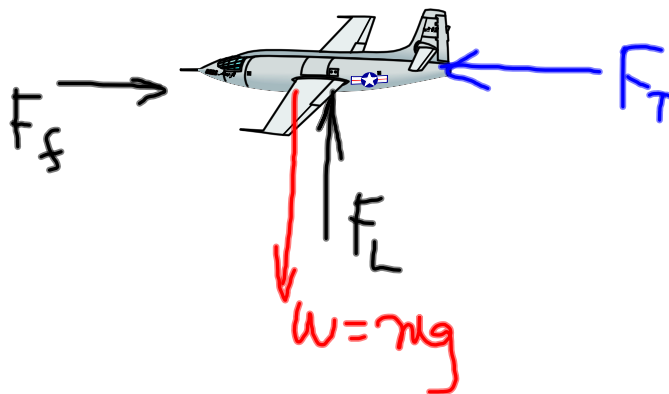


CONSTANT VELOCITY $w/a=0$



SITUATION $w/a \neq 0$

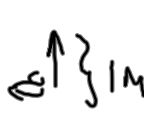


SKILL SHEET SA

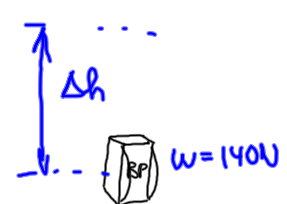
①, ② $W_{\text{work}} = F_{\parallel} \times \Delta d$

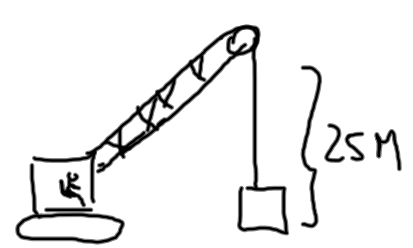
③ JOULES or (N)(M)

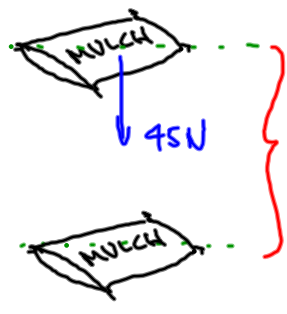
SOLVING WORK PROBLEMS

②  $F = 100\text{N} \times (1\text{M}) = 100\text{J}$

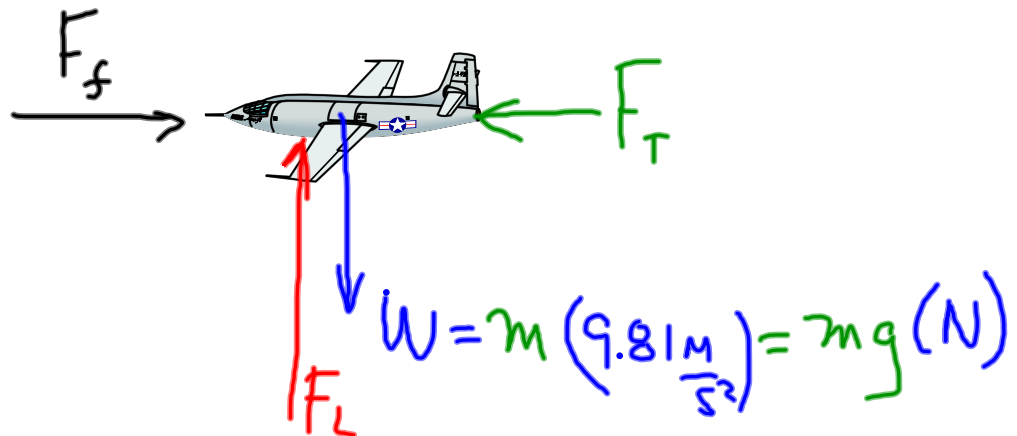
③  $W_{\text{work}} = (200\text{N})(500\text{M})$
 $= 100,000\text{J}$

⑤  $W = 140\text{N}$
 $W_{\text{work}} = 170\text{J} = F_{\parallel} (\Delta h)$

⑦  $W_{\text{work}} = 62,500\text{J}$
 $" = (F_{\parallel})(25\text{M})$
 $F_{\parallel} = \frac{62,500}{25} = 2,500\text{N}$

⑧  $\Delta d = 1.2\text{M}$
 $W_{\text{work}} = (45)(1.2\text{M})$
 $= 54\text{Joules}$

FBD @ CONST. VELOCITY

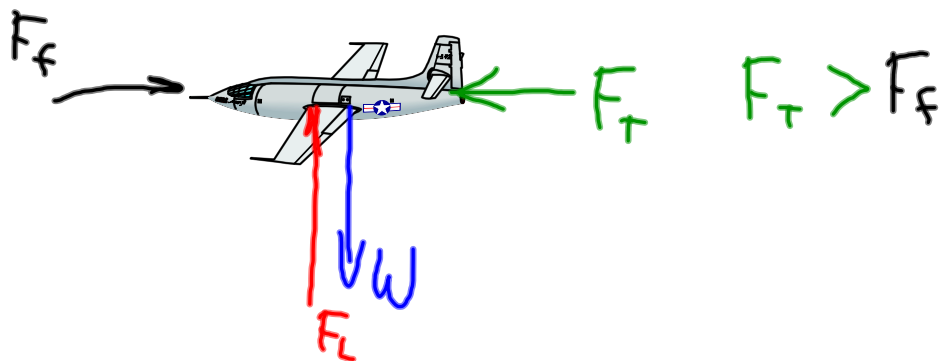


$$F_L = W$$

all FORCES are in EQUILIBRIUM $\rightarrow a = 0$

$$F_f = F_T$$

WITH $a \neq 0$ HORIZONTALLY



SKILL SHEET

$$W_{\text{work}} = (F_{\parallel}) (\Delta d)$$

$$\begin{array}{c} (N) \quad (m) \\ \underbrace{\hspace{1.5cm}} \\ \text{Joule} \end{array}$$