$$F_{\text{air}} = K\,v$$

$$F_{\text{air}} = K\,v^2$$

$$F_{\text{air}} = K\,v^{1.34}$$

$$F_{\text{air}} - mg = 0 \qquad \Rightarrow \qquad F_{\text{air}} = mg$$

$$y = mx + b$$

$$F_{\text{air}} = K\,v^p$$

$$\begin{aligned} \log(F_{\text{air}}) &= \log(K\,v^p) \\ &= \log(K) + \log(\,v^p) \\ &= \log(K) + p\log(\,v) \end{aligned}$$

$$\int (Kt)\;dt \qquad = \qquad \frac{1}{2}K\,t^2$$