Inspiratory limb

$$V - Vmin = \frac{Vmax - Vmin}{N}$$

$$N \cdot (V - Vmin) = Vmax - Vmin$$

$$N \cdot V - N \cdot Vmin - Vmax = -Vmin$$

$$N \cdot V - Vmax = N \cdot Vmin - 1Vmin$$

$$\frac{N \cdot V - Vmax}{N - 1} = Vmin$$

$$Vmin = \frac{N \cdot V - Vmax}{N - 1}$$

Expiratory limb

$$Vmax = Vmin + (V - Vmin) \cdot N$$