

3)
$$\eta = \frac{P_L}{P_L + P_{ind}} = \frac{1}{1 + \frac{Q_T}{Q_{ind}}} = \frac{Q_{ind}}{Q_T + Q_{ind}}$$

4) ~~same as 3)~~ or

$$\eta = \frac{1}{1 + \frac{R_{ind}}{R_L}} = \frac{R_L}{R_{ind} + R_L}$$

4) ~~for~~
$$\eta = \frac{Q_{ind}}{Q_T + Q_{ind}}$$