Esercituaione 10 -Exercise & - Hy charlie Turbines in Parallel Hm = 0.4Q2+0.5Q This is the texture ene see the curre we see for futiner sucether are garally weeless, since on towhile we change geometry to regulate power Hw/ = 0.4 Q + 0.5 Q $Q_{T_1} = Q_{T_2} = \frac{1}{2}Q_{1} = \frac{1}{2}Q$ 9 Hm = 11-112 > For this type of exercise $H_{m//}(u) = 0.1Q^{2} + 0.25Q(\frac{n}{375})$ => n= 825 pm Once the purps / tubier one of Gerent we can't apply simplifying ules:

HT = 0.4 QT + 0.5 QT = $2 \rightarrow Q$ T, formal

HT = 0.4 QT + 0.5 QT ($\frac{n_{T2}}{375}$) = 2We have HT = HT = 2, because DT does not change. HmTz=2

$$Q_{T2} = 0.8 \text{ m/s} \Rightarrow 0.72 \Rightarrow 0.72 \Rightarrow 0.8 \text{ m/s}$$

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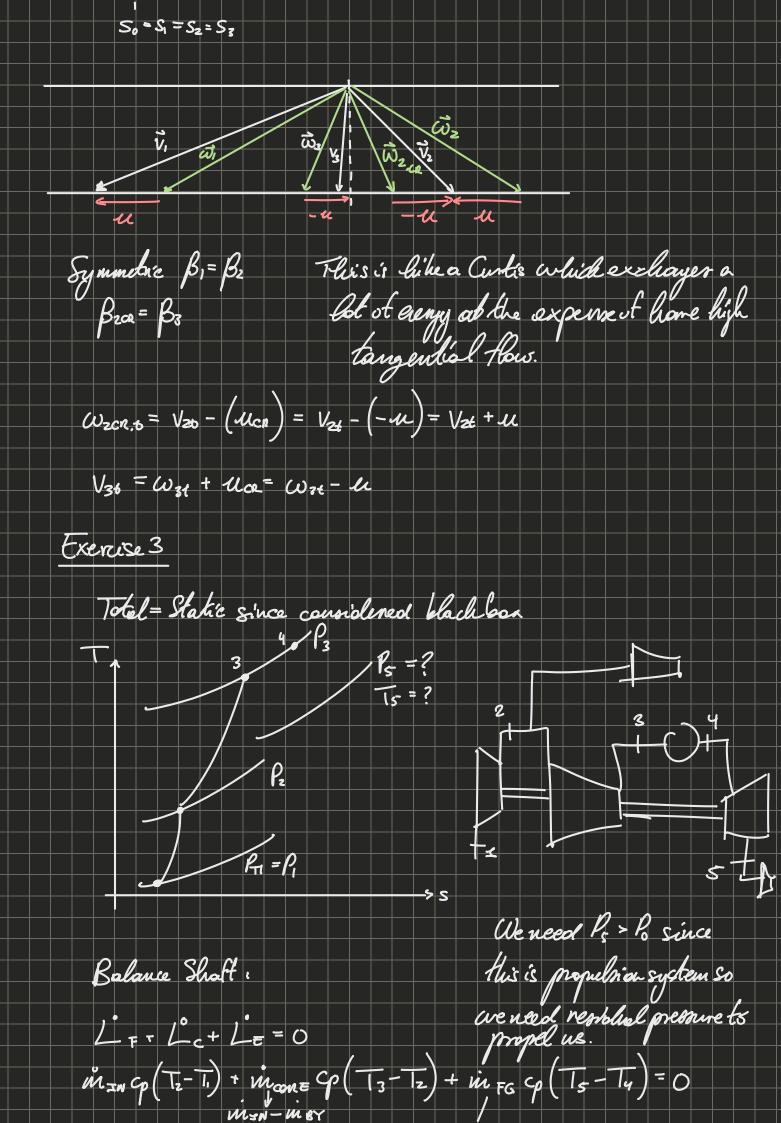
$$\text{Total} \Rightarrow 0.8 = 0$$

$$\text{Total} \Rightarrow 0.8 = 0 \Rightarrow 0.1 = 0.2 = 0.8$$

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$$\text{Axial} \Rightarrow 0.70 = 0.8$$

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To
$$n_{\tau-1}$$

To n_{τ}

To n_{τ}

To n_{τ}

We find B, if B > Bent and the woodle is prolly convergent we can impore M=1