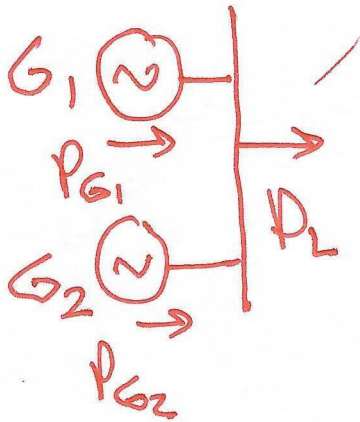


EXAMPLES: CLASSIC ECONOMIC DISPATCH.

INPUT OUTPUT CHARACTERISTIC



$$\left\{ \begin{aligned} F_1 &= 0,0008 P_{G1}^2 + 0,2 P_{G1} + 5 \frac{\text{BTU}}{\text{H}} \\ F_2 &= 0,0005 P_{G2}^2 + 0,3 P_{G2} + 4 \frac{\text{BTU}}{\text{H}} \end{aligned} \right.$$
$$P_L = 500 \text{ MW}$$

~~DETERMINING~~ THE ECONOMIC DISPATCH OF THOSE TWO GENERATION UNITS.

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ANSWER. $P_{G1} = 230.77 \text{ MW}$
 $P_{G2} = 269.23 \text{ MW}$