Task 1

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Y - will use XAI

$\hat{Y}$ - enrolled in training

Demographic parity: $\frac{P(\hat{Y}|Blue)}{P(\hat{Y}|Red)} = \frac{0,65}{0,5} = 1,3$

Equal opportunity: $\frac{P(\hat{Y}|Blue,Y)}{P(\hat{Y}|Red,Y)} = \frac{0,75}{0,5} = 1,5$

Predictive rate parity: $\frac{P(Y|Blue,\hat{Y})}{P(Y|Red,\hat{Y})} = \frac{12}{13}/\frac{1}{2} = \frac{24}{13} \approx 1,846$