Salam

# Q1)

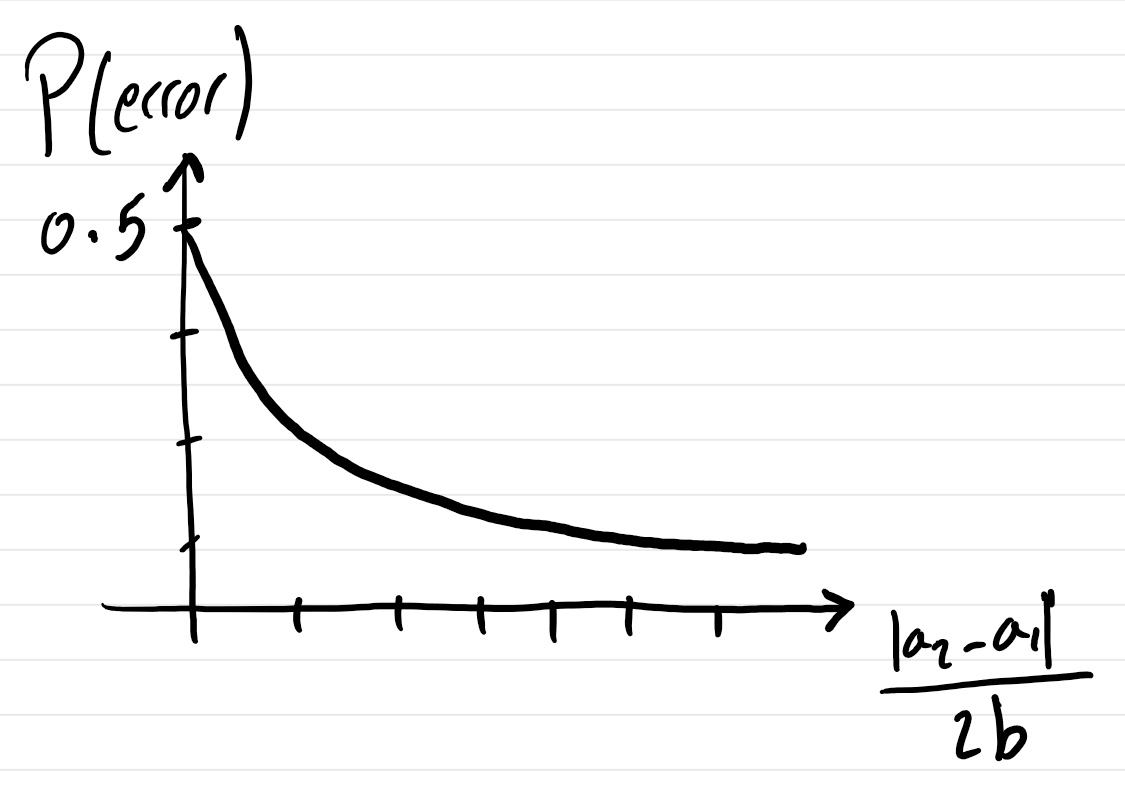
# Q2)

## Part a)

Decision boundary is at .

## Part b)

The function is drawn bellow.



## Part c)

It is obvious that and it happens at which occurs at . This occurs at two situations:

1. When means the two distributions are the same.

2. When means both distributions are flat.

# Q3)

# Q4)

Sal