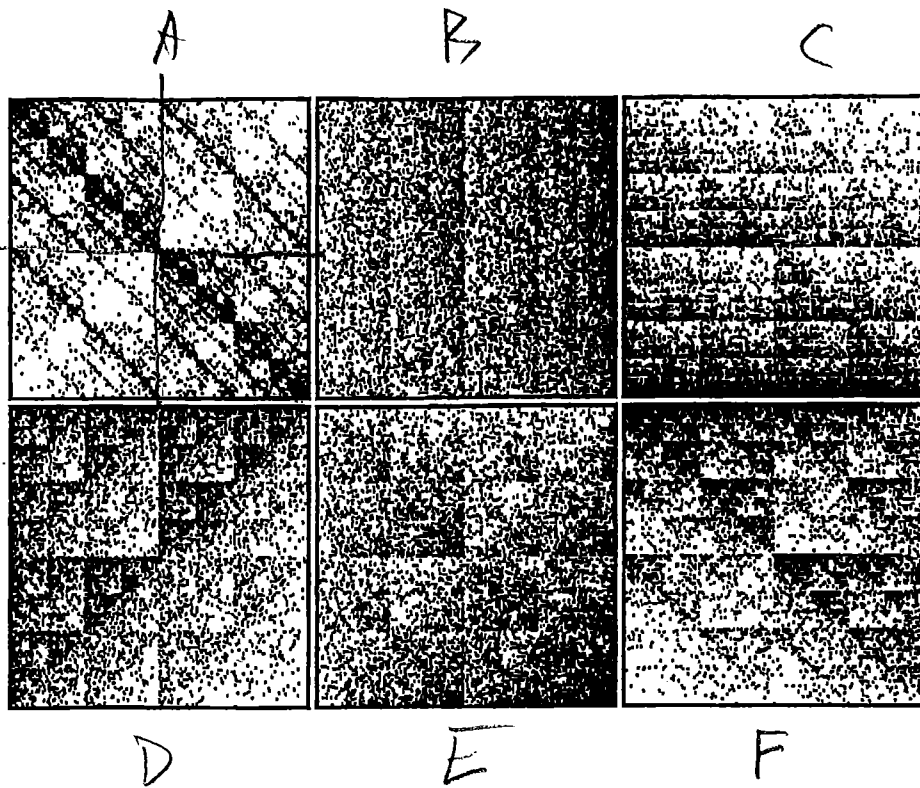


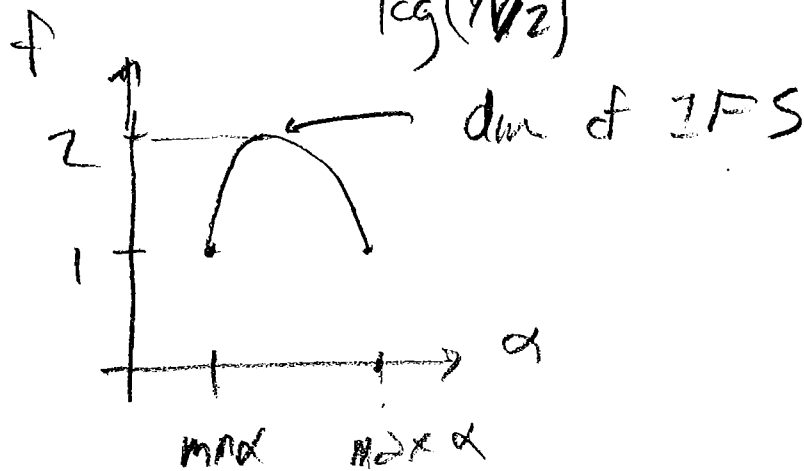
Oct 8 Notes 1



A $p_1 = p_4 < p_2 = p_3$

$$f(\max \alpha) = \frac{\log(2)}{\log(\sqrt[4]{2})} = 1 \quad (1-4 \text{ line})$$

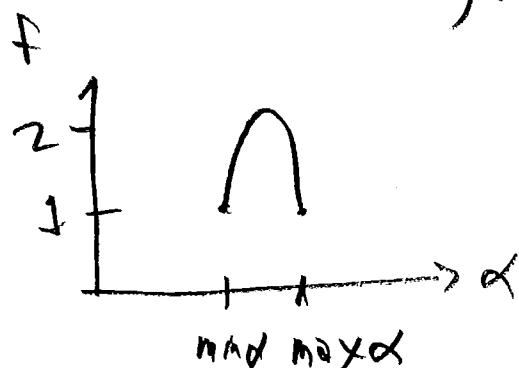
$$f(\min \alpha) = \frac{\log(2)}{\log(\sqrt[2]{2})} = 1 \quad (2-3 \text{ line})$$



$$B \quad p_1 = p_3 < p_2 = p_4$$

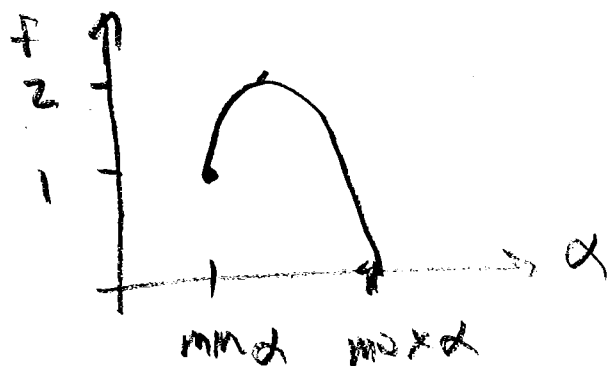
$$f(\max \alpha) = \frac{\log(2)}{\log(1/1/2)} = 1 \quad (1-3 \text{ line})$$

$$f(\min \alpha) = \frac{\log(2)}{\log(1/1/2)} = 1 \quad (2-4 \text{ line})$$



narrower range of α values because B is more uniformly filled than A.

$$C \quad p_4 < p_3 < p_1 = p_2$$



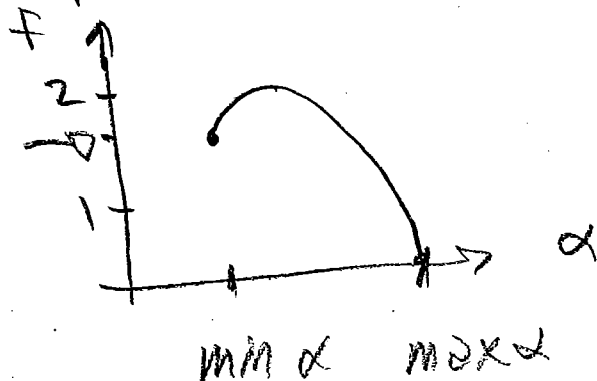
$$f(\min \alpha) = \dim \{T_1, T_2\} = 1$$

$$f(\max \alpha) = \dim(\text{corner}) = 0$$

D

$$P_2 < P_1 = P_3 = P_4$$

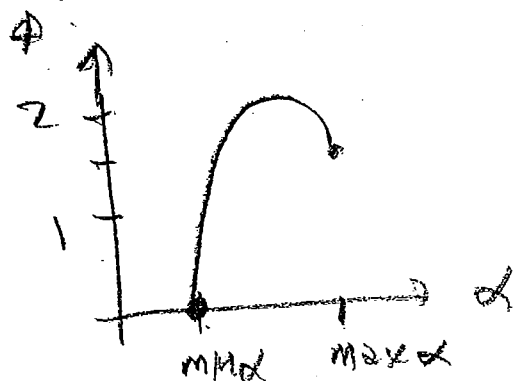
$$\frac{\log 3}{\log 2}$$



E

$$P_1 = P_3 = P_4 < P_2$$

$$\frac{\log 3}{\log 2}$$



Think about F - what do you see?