

Lecture 09/20/23

Hw due

~~14~~
today

15
Wed
today

16
Fri

17
Sun

No quiz this week

Next week (RA

opens Sep 25th - Oct 6th

Review:

SIF : $y = mx + b$

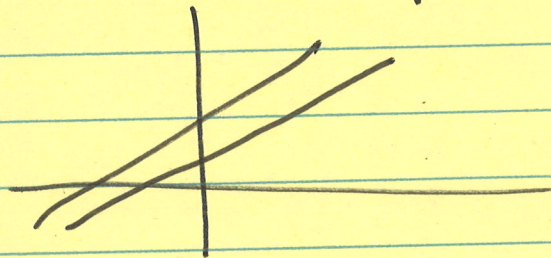
PSF : $y = m(x - x_1) + y_1$

Parallel lines have
have same slope

$$y = mx + b$$

$$y = m_0x + b_0$$

$$m = m_0$$

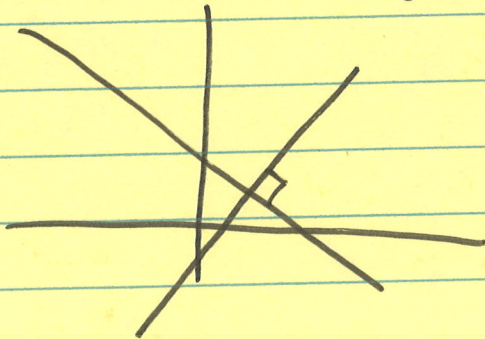


Perpendicular lines
satisfy

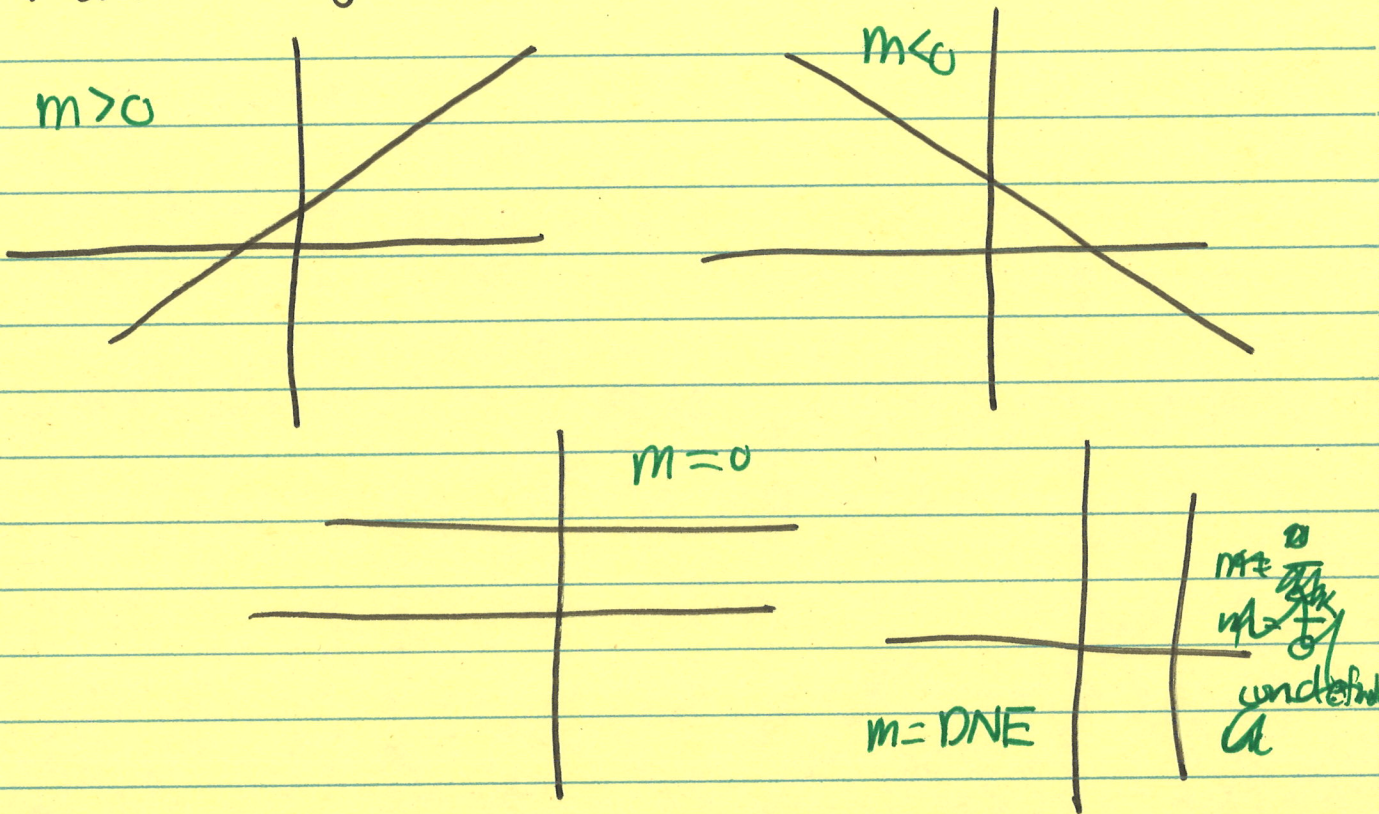
$$y = mx + b$$

$$y = m_0x + b_0$$

$$m_0 = -\frac{1}{m} \quad (\text{flip } m \text{ then add neg})$$



Positive / Negative Slope



Prob 1: Together

- a) B
- b) D, B (magnitude \Rightarrow take absolute value) (forget sign)
- c) A
- d) A
- e) E, D

Prob 4)

- a) i)
- b) ii)
- c) vi)

- d) iv)
- e) vii)
- f) v)

- g) iii)

$b, a > 0$ important

Find possibilities then narrow down