integral of true cosine with correct frequency
then its longest for true f.

check bias on curvature?

(X, Y)

$(\mathbb{I}[X \in A], Y)$

matlab scaling.

& $\mathbb{P}(X \le x, Y \le y) = F(x, y)$

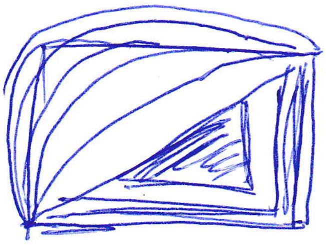
im

$$\mathbb{E}[X \mid A, G] = \frac{\mathbb{E}[X \mathbb{I}[A] \mid G]}{\mathbb{P}(A)}$$

~~7:30–8:30~~ ~~8–9~~ 8–9 skype w/ Amin

3:30 skype

$$\mathbb{P}(B \mid Y, A) = \mathbb{E}\left[\mathbb{I}[B] \mid Y, A\right]$$



$$= \frac{\mathbb{E}\left[\mathbb{I}[B]\, \mathbb{I}[A] \mid Y \right]}{\mathbb{P}(A)}$$

$\mathbb{E}[\mathbb{I}[X \in$

$$= \frac{\mathbb{P}(A \cap B \mid Y)}{\mathbb{P}(A)}$$

$\mathbb{P}(X \in A, Y \le y)$

$$= \int_A \int_{-\infty}^{y} f_{X,Y}(x, y)\, dx\, dy$$
