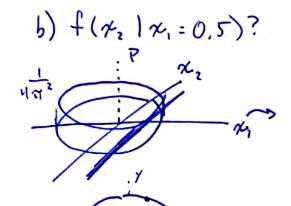
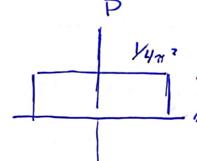
1) x, x, uniform in a circle w/ R=2

a)
$$f(x_1, x_2) = ?$$

$$= \begin{cases} \frac{1}{4\pi^2}, x_1^2 + x_2^2 \le 1 \\ 0, \text{ otherwise} \end{cases}$$





1477 still uniform,
just over the rectingle
defined ax, = 0.5

->
$$f(x_1 | x_1 = 0.5) =$$

$$\begin{cases} \frac{1}{4\pi^2}, |x_2| \le 1.9365 \\ 0, eke \end{cases}$$

() books (or
$$(x_1, x_2) = \mathbb{E}[(x_1 - \overline{x_1})(x_2 - \overline{x_2})]/\sqrt{x_1}, \sigma_{x_1}$$
 $(x_1, x_2) = \mathbb{E}[(x_1 - \overline{x_1})(x_2 - \overline{x_2})]/\sqrt{x_2}, \sigma_{x_2}$
 $(x_1, x_2) = \mathbb{E}[(x_1 - \overline{x_1})(x_2 - \overline{x_2})]/\sqrt{x_2}$
 $(x_2, x_3) = \mathbb{E}[(x_1 - \overline{x_1})(x_2 - \overline{x_2})]/\sqrt{x_2}$
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d) f(x2) \times f(x2 | x1) -> not independent