Ex 3.26: simply swap all rectangles for balls and vice versa.

Wednesday

Thm 3.27

$X_1 \times \cdots \times X_n$: product space.

$$f_i = \pi_i \circ f$$

$$f: Y \to$$

$\pi_i : X_1 \times \cdots \times X_n \to X_i$ is the canonical projection.

Thm 3.27 ~~Alt/proof~~ & Ex 3.29

~~Claim~~ π_i cts as $\pi_i^{-1}(U) = X_1 \times \cdots \times U \times \cdots X_n$.
is open!

$\Rightarrow$ $\pi_i \circ f$ cts if f cts.

---

fina ~~$f_i(z) = \pi_i(f(z))$~~

$f_i^{-1} = f^{-1} \circ \pi_i^{-1}$

Prop 3.36 (obvs map if you think of the forms!)

~~Thm 3.37~~