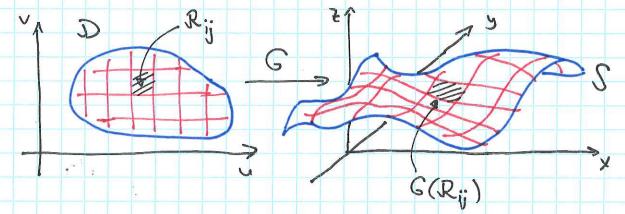
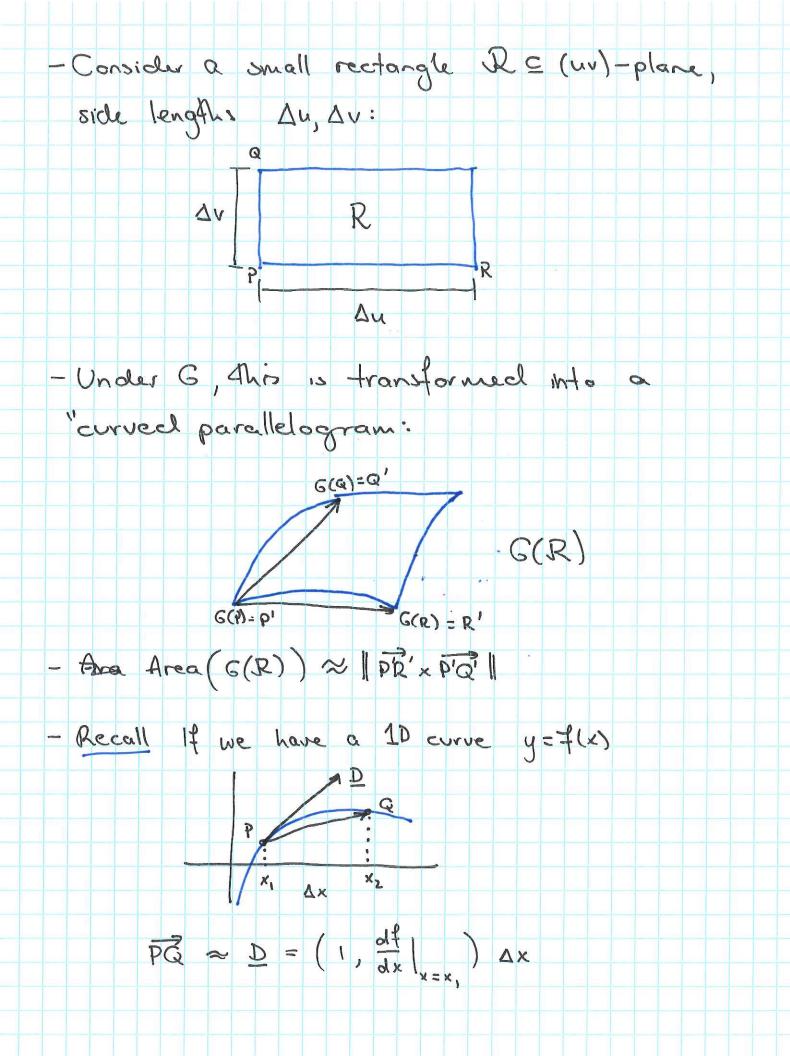
Lecture 17

- Suppose we have a parametrised surface 5



- Divide Au domain Dinto rectangles Rij
- Choose points P; ER;
- If f is a function defined on the surface S Aven

- Guestie is a good definition for a surface integral.
- Quetion; how can we compute, approximate Avea $G(R_i)$?



=
$$\|N(u,v)\|$$
Area (Ri)

- Hence

Thus

$$\iint_{S} f(x y z) dS = \iint_{D} f(G(u,v)) || N(uv) || dA_{uv}$$