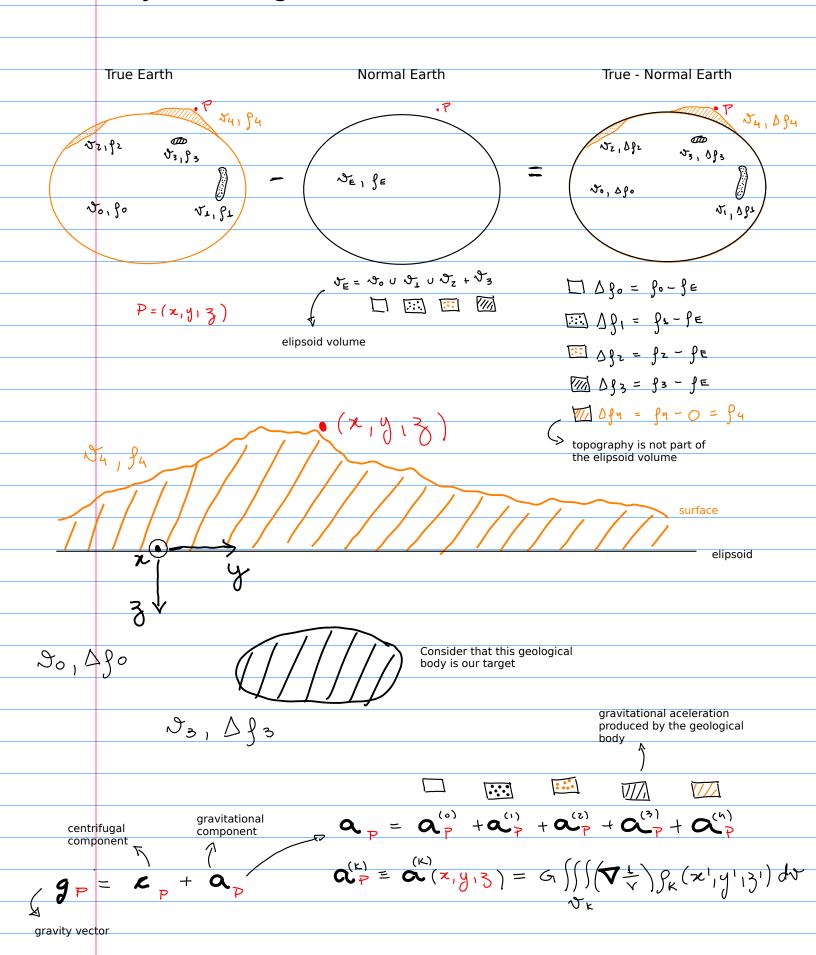
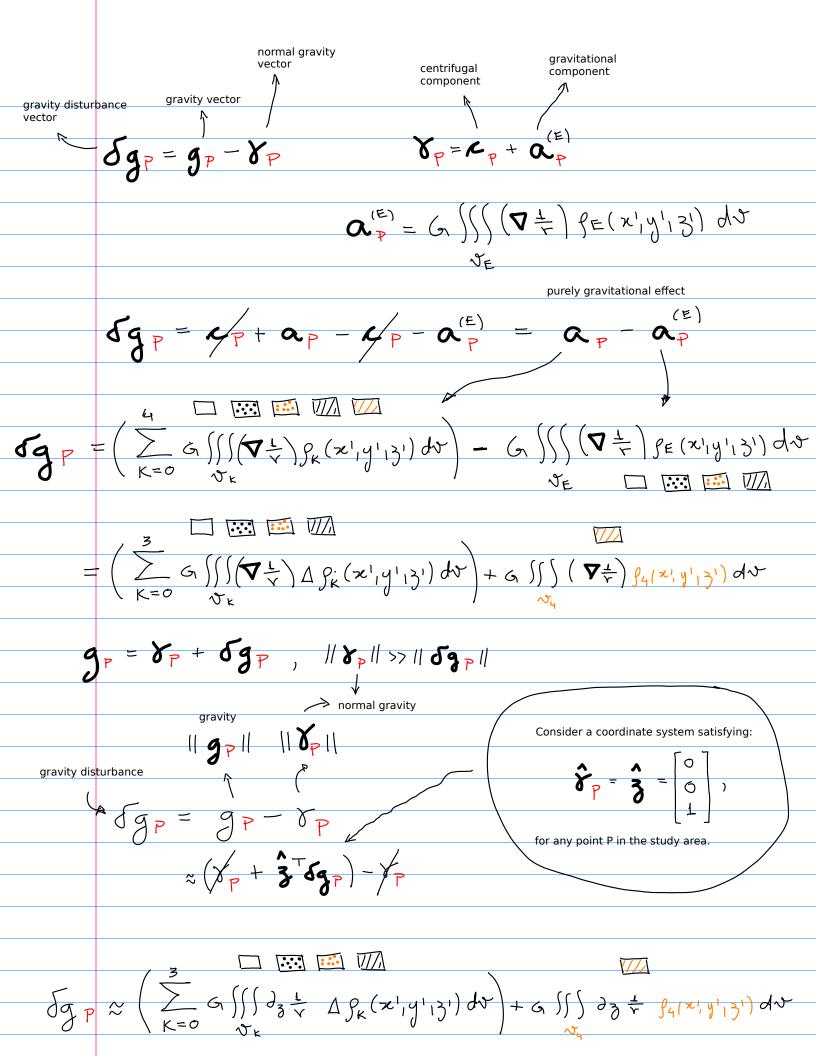
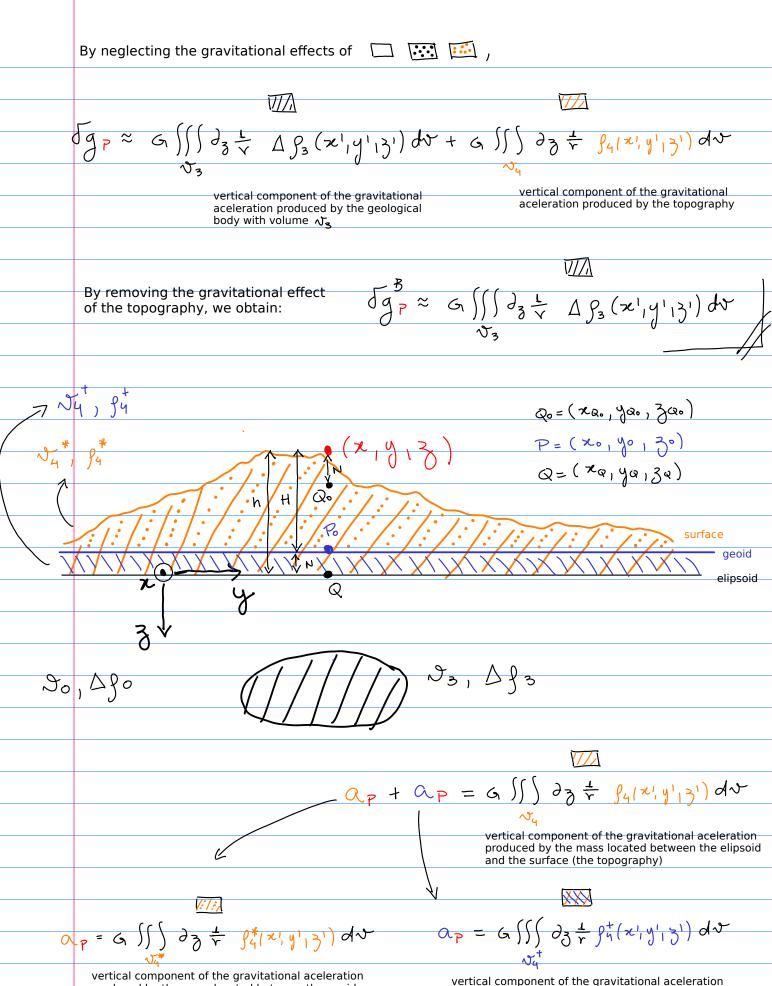
Gravity modeling







vertical component of the gravitational aceleration produced by the mass located between the geoid and the surface

vertical component of the gravitational aceleration produced by the mass located between the elipsoid and the geoid

$$\Delta g^{\frac{3}{p}} = g_{p} - (\delta_{Q} + \frac{\partial V}{\partial h} +) - \alpha_{p} \approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p}$$

$$\approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p} \approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p}$$

$$\approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p} \approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p}$$

$$\approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p} \approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p} \right\}$$

$$\approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} + \frac{\partial V}{\partial h} - \alpha_{p} \right\}$$

$$\approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p} \approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} - \alpha_{p} \right\}$$

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$$\approx \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} + \frac{\partial V}{\partial h} + \frac{\partial V}{\partial h} + \frac{\partial V}{\partial h} - \alpha_{p} \right\}$$

$$\Rightarrow \left\{ g_{p} - \delta_{p} \right\} + \frac{\partial V}{\partial h} + \frac{\partial V}{\partial h}$$