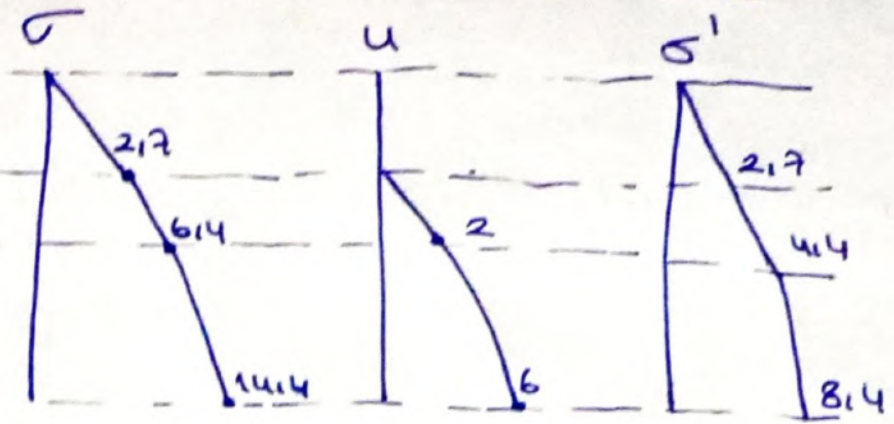
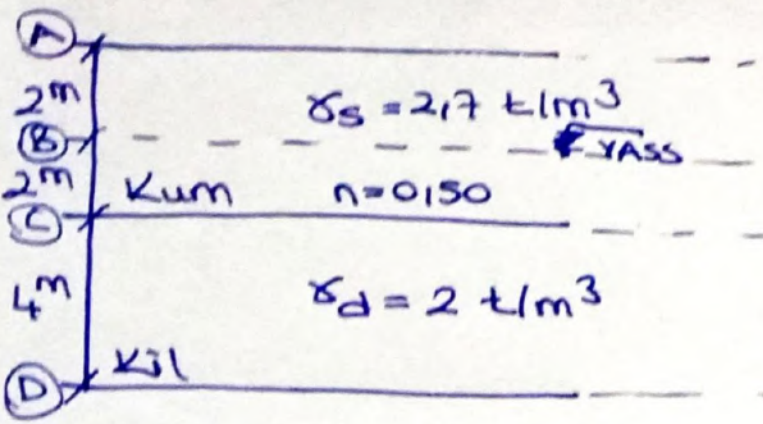


EFEKTIF GERILMELER



Efektif gerilmeleri bul.

$$* e = \frac{n}{1-n} = \frac{0,15}{0,85} = 1$$

$$* \gamma_w = \frac{\gamma_s}{1+e} = \frac{2,7}{2} = 1,35 \text{ t/m}^3$$

$$* \gamma_d = \frac{\gamma_s + e \gamma_w}{1+e} = \frac{2,7 + 1,125}{2} = 1,9125 \text{ t/m}^3$$

Toplam Gerilme (σ)

$$\sigma_A = 0$$

$$\sigma_B = 1,35 \times 2 = 2,7 \text{ t/m}^2$$

$$\sigma_C = 2,7 + 2 \times 1,9125 = 6,525 \text{ t/m}^2$$

$$\sigma_D = 6,525 + 4 \times 1,9125 = 13,775 \text{ t/m}^2$$

Bosluk Suyu Basinci (u)

$$u_A = 0$$

$$u_B = 0$$

$$u_C = 2 \times 1 = 2 \text{ t/m}^2$$

$$u_D = 2 + 4 \times 1 = 6 \text{ t/m}^2$$

Efektif Gerilme (σ')

$$\sigma' = \sigma - u$$

$$\sigma'_A = 0 - 0 = 0$$

$$\sigma'_B = 2,7 - 0 = 2,7 \text{ t/m}^2$$

$$\sigma'_C = 6,525 - 2 = 4,525 \text{ t/m}^2$$

$$\sigma'_D = 13,775 - 6 = 7,775 \text{ t/m}^2$$

Berke ARSLAN

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