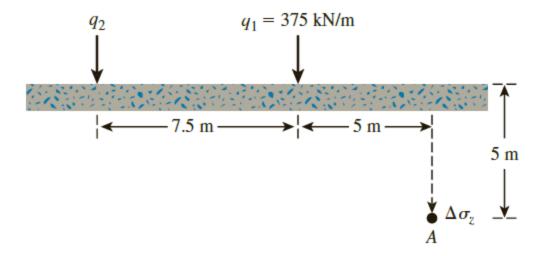
Birzeit University Faculty of Engineering Department of Civil and Environmental Engineering

ENCE 331, Soil Mechanics

Homework assignment #9
Due on Tuesday Jan. 12th, 2021 @ 12:00 AM.

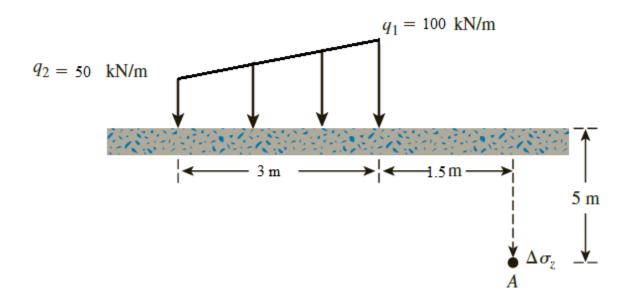
Problem 1:

Due to application of line loads q_1 and q_2 , the vertical stress increase at point A is 58 kN/m². Determine the magnitude of q_2 .



Problem 2:

A strip foundation is subjected to the load shown below. Determine the increase in vertical stress at point A



Problem 3:

A rectangular area is subjected to a uniformly distributed load of $q = 450 \text{ kN/m}^2$. Determine the increase in vertical stress, at a depth of z=3m and 6 m under points A, B, and C.

