Problems

5.11 Two 5’ wide by 12-feet-high brick walls of a garage support a roof slab 20 feet wide. The roof weighs 100 psf and carries a snow load of 30 psf. Check the compressive stress at the base of the wall assuming brick (for this problem) has a capacity of 125 psi. Brick weighs 120 #/ft.$^3$

Hint: Analyze a typical one foot strip of wall.