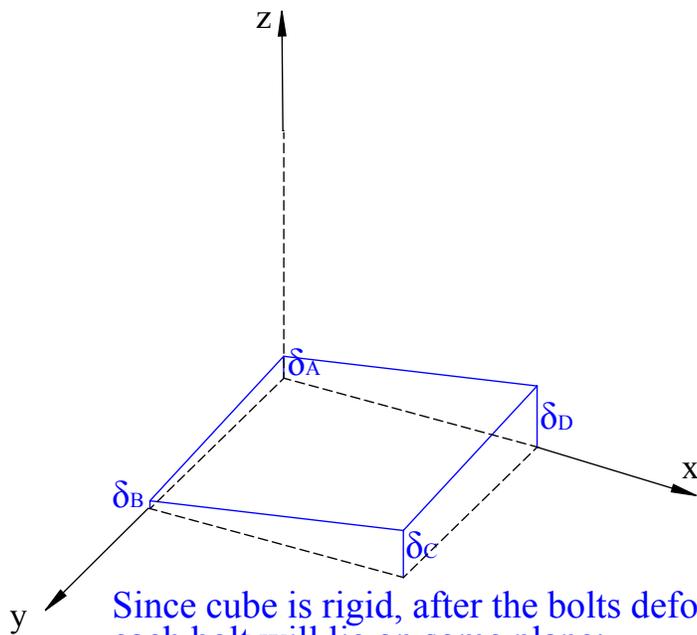


$$A = k\delta_A \quad B = k\delta_B \quad C = k\delta_C \quad D = k\delta_D$$

↑ ↑ ↑ ↑
Force of Cube on Each Bolt



Since cube is rigid, after the bolts deform, the top of each bolt will lie on some plane:

$$ax+by+cz+d = 0$$

$$z = -(a/c)x - (b/c)y - (d/c)$$

(note: the lower case variables a, b, c, d are different than the upper case A, B, C, D)