Types of Numbers

- 1. Scalar magnitude
- 2. Vector-magnitude and direction

3. Tensor-relationships between vectors (stress-strain)

Ax =+ Acoso (+)

Bx = Bcoso (+)

By = Bsino (-) Show direction even when positive!

A+B=C

Cx = Ax+Bx Cy = Ay+By = = [Cx2+Cy2 2 2 2cy 0 = tan-(Cy) \*Units!

Unit Vector Notation

i represents x-direction

i represents y-direction & represents z-direction

8 = 8x2+843