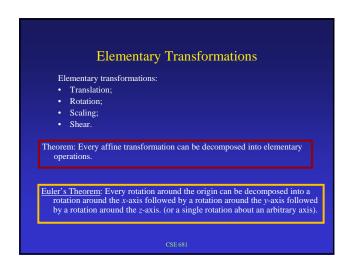
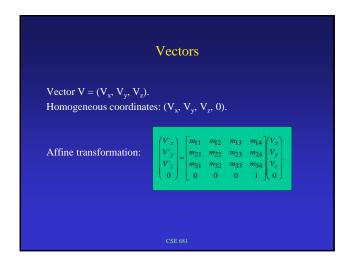
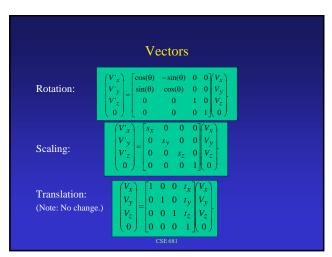
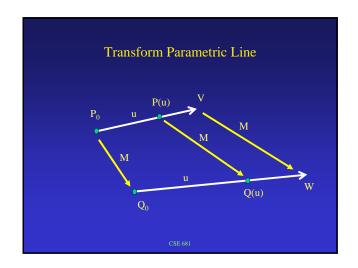


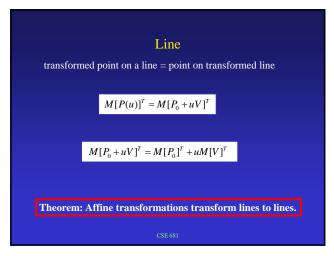
Which transformations commute? Translation and translation? Scaling and scaling? Rotation and rotation? Translation and scaling? Translation and rotation? Scaling and rotation?

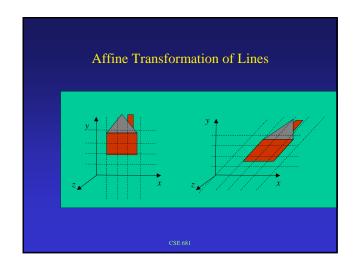


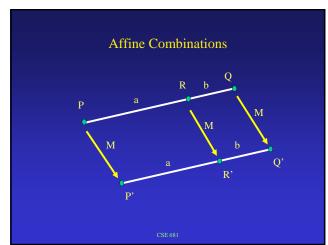


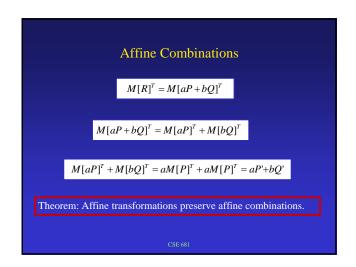












Properties of Affine Transformations • Affine transformations map lines to lines; • Affine transformations preserve affine combinations; • Affine transformations preserve parallelism; • Affine transformations change volume by | Det(M) |; • Any affine transformation can be decomposed into

Affine transformations [does/does not] preserve angles?Affine transformations [does/does not] preserve the

• Affine transformations [does/does not] preserve distances?

elementary transformations.

intersection of two lines?

