





Vectors can be used to describe translations. Example 1: A (-3, -1) and B (-1, -2). What are the image points under the translation v = <4, 3>. A+v = <-3+4, -1+3 < (1, 2) B+v = <-1+4, -2+3 < (3, 2)

Example 2: Find the magnitude and direction of each resultant for the given vectors. **A** = <5,0> **B** = <0,12>  $\vec{A} + \vec{B} = < 5 + 9, 0 + 12 >$ = <5, 12> ( $|\vec{A} \cdot \vec{B}|| = \sqrt{(5)^2 + (12)^2}$ (an 0=12 + 144



