



## §10.4 Vectors

### Unit Vectors

unit vectors:  $i, j, k$  in direction x-axis, y-axis, z-axis

### Add & Subtract Vectors Algebraically

$$v = (a_1, b_1) = a_1i + b_1j \quad w = (a_2, b_2) = a_2i + b_2j$$

$$v + w = (a_1 + a_2)i + (b_1 + b_2)j$$