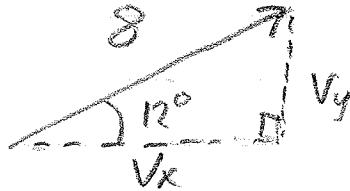


PRACTICE ON VECTOR COMPONENTS

1. FIND X AND y COMPONENTS OF  $\vec{V}$ .

USE 3 DECIMALS.



$V_x =$

$V_y =$

2. FIND LENGTH & DIRECTION (ANGLE) OF A VECTOR WITH

$V_x = 4$

$V_y = 7$



$V =$

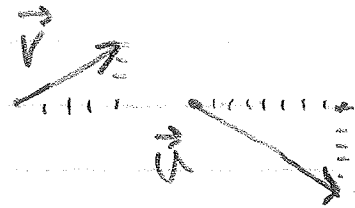
$\theta =$

3. GIVEN THE VECTORS

$\vec{V} = 4\vec{i} + 3\vec{j}$

$\vec{u} = 9\vec{i} - 5\vec{j}$

a, FIND  $\vec{W} = \vec{V} + \vec{u}$



b, FIND THE LENGTH OF  $\vec{W}$

c, WHY IS THE LENGTH OF  $\vec{W}$  NOT EQUAL TO THE SUM OF THE LENGTHS OF  $\vec{V}$  AND  $\vec{u}$  ?