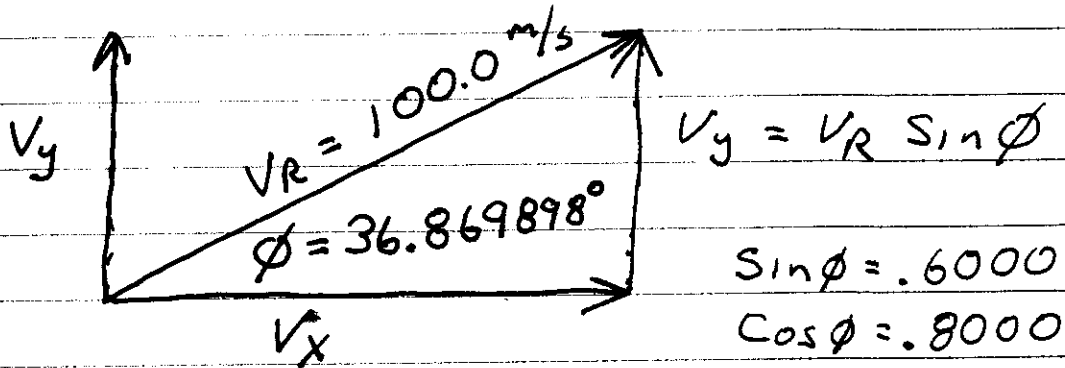


20080131-1030

Name Key



A) Determine  $V_y = V_R \sin \phi$   
 $= (100.0 \text{ m/s})(.6000)$   
 $V_y = 60.00 \text{ m/s}$

B) Determine  $V_x = V_R \cos \phi$   
 $= (100.0 \text{ m/s})(.8000)$   
 $V_x = 80.00 \text{ m/s}$