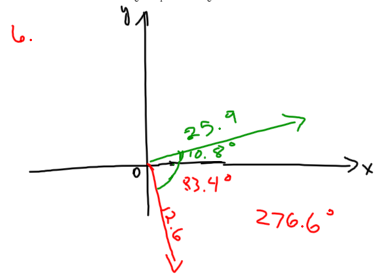


9.4 Applications of Vectors

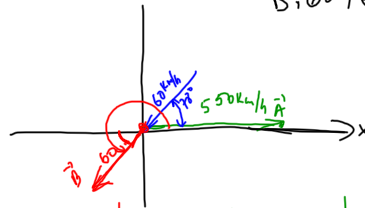
solving word problems using the information from section 3



$\vec{A}$	25.9	$10.8^\circ$	25.44	4.85
$\vec{B}$	12.6	$276.6^\circ$	1.45	-12.52
$\vec{R}$	27.96	$15.92^\circ$	26.89	-7.67

(17)

$\vec{A}: 550; \theta_A = 0^\circ$   
 $\vec{B}: 60; \theta_B = 258^\circ$



	x-comp	y-comp
$\vec{A}$	550	0
$\vec{B}$	-12.47	-58.69
$\vec{R} = \vec{A} + \vec{B}$	537.53	-58.69

$R = 540.74$  at  $\theta = 6.93^\circ$

$360 - 6.73$

8):

$\vec{A}: 650 \text{ km}; \theta_A: 19^\circ$   
 $\vec{B}: 390 \text{ km}; \theta_B: 312^\circ$

