



Graphically,  $\underline{V} = 16.4 \text{ units}, \theta_x = 83^\circ$

Algebraically,  $V^2 = 10^2 + 12^2 - 2(10)(12)\cos 94.7^\circ$   
 $V = 16.51 \text{ units}$

$$\frac{\sin \beta}{12} = \frac{\sin 94.7^\circ}{16.51}, \quad \beta = 44.2^\circ$$

$$\theta_x = \beta + 36.9^\circ = 44.2^\circ + 36.9^\circ = \underline{83.0^\circ}$$

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**Don A. Halperin**



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where  $\alpha$  is the resulting vector angle  $y$  is the resulting vector vertical offset  $c$  is the sum of the two force vectors  $a$  is the first  
force vector  $b$  is the second force vector