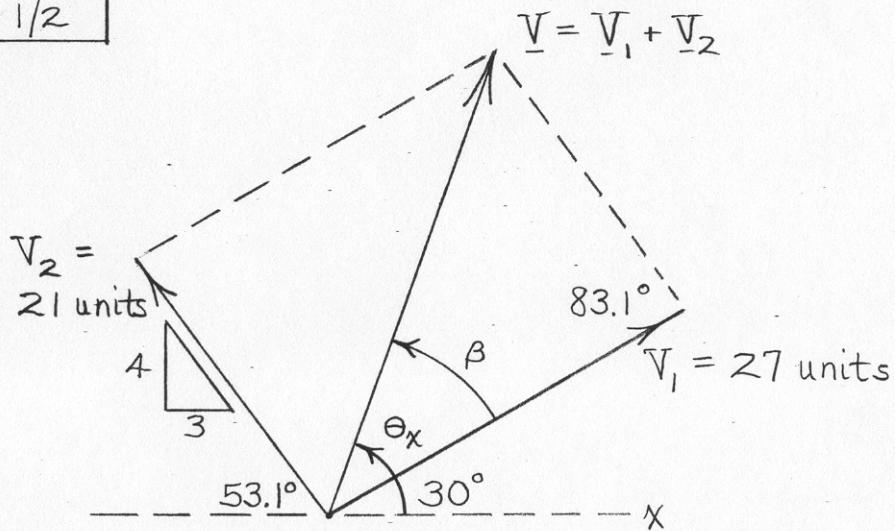


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Graphically,  $\underline{V} = 32$  units,  $\theta_x = 70^\circ$

Algebraically,  $\underline{V}^2 = 27^2 + 21^2 - 2(27)(21)\cos 83.1^\circ$

$$\underline{V} = 32.2 \text{ units}$$

$$\frac{\sin \beta}{21} = \frac{\sin 83.1^\circ}{32.2}, \quad \beta = 40.4^\circ$$

$$\theta_x = \beta + 30^\circ = 40.4^\circ + 30^\circ = 70.4^\circ$$