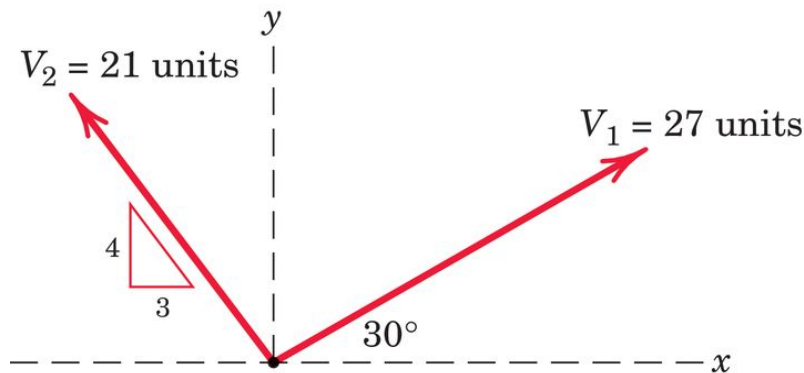**Engr 152, Fall 2019**

HW #1: Chapter 1, Meriam and Kraige, 8th Ed.:   Probs. 1/2, 1/7abc, 1/9

1/2 Determine the magnitude of the vector sum $\underline{V} = \underline{V_1} + \underline{V_2}$ and the angle θ_x which $\underline{V}$
makes with the positive x-axis. Complete both **graphical** (geometric and/or trigonometric, e.g., law of sines and law of cosines) and **algebraic** (vector algebra, $\hat{\imath} - \hat{\jmath}$) solutions.

1/7 Determine the weight in newtons of a woman whose weight in pounds is 125 lb. Also, find her mass in slugs and in kilograms.

1/9 Computer the magnitude F of the force which the sun exerts on the earth. Perform the calculation first in pounds and then convert your result to newtons.
Refer to Table D/2 for necessary physical quantities.
Draw the force that acts on each body.