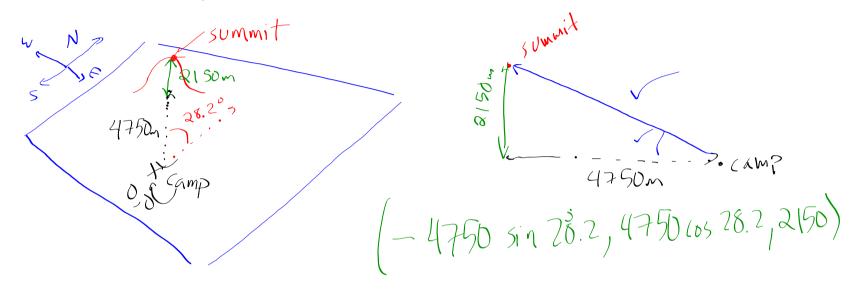
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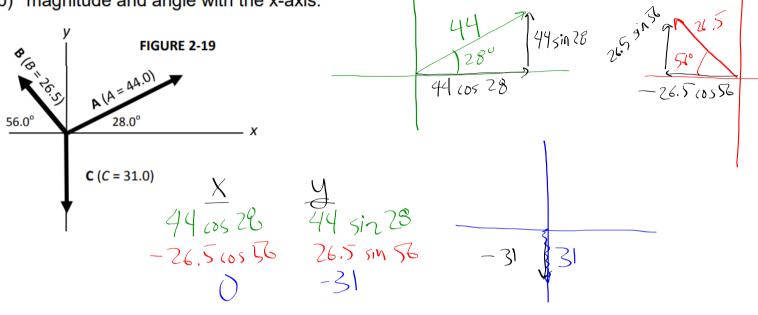
17. The summit of a mountain, 2150 m above a camp, is measured on a map to be 4750 m horizontally from the camp in a direction 28.2° west of due north. What are the components of the displacement vector from camp to summit? What is its length? Choose the x-axis east, y-axis north, and z-axis up.



8. Three vectors are shown in Figure 2-19; their magnitudes are given in arbitrary units. Determine the sum of the three vectors. Give the resultant in terms of

a) components.

b) magnitude and angle with the x-axis.



$$\frac{y}{x} = \frac{y}{x}$$

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- 12. A skier is accelerating down a 30.0° hill at 3.60 m/s².
 - a) What is the vertical component of her acceleration?
 - b) How long will it take her to reach the bottom of the hill, assuming she starts from rest and accelerates uniformly, if the elevation change (elevation is a measure of the vertical direction) is 150 m?

