

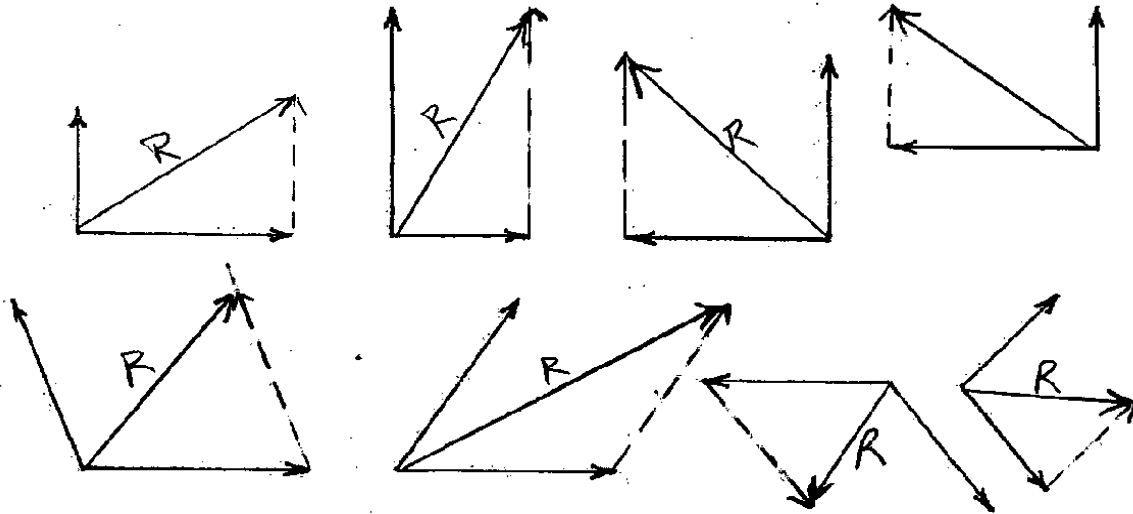
"HEAD TO TAIL"

Concept-Development Practice Page

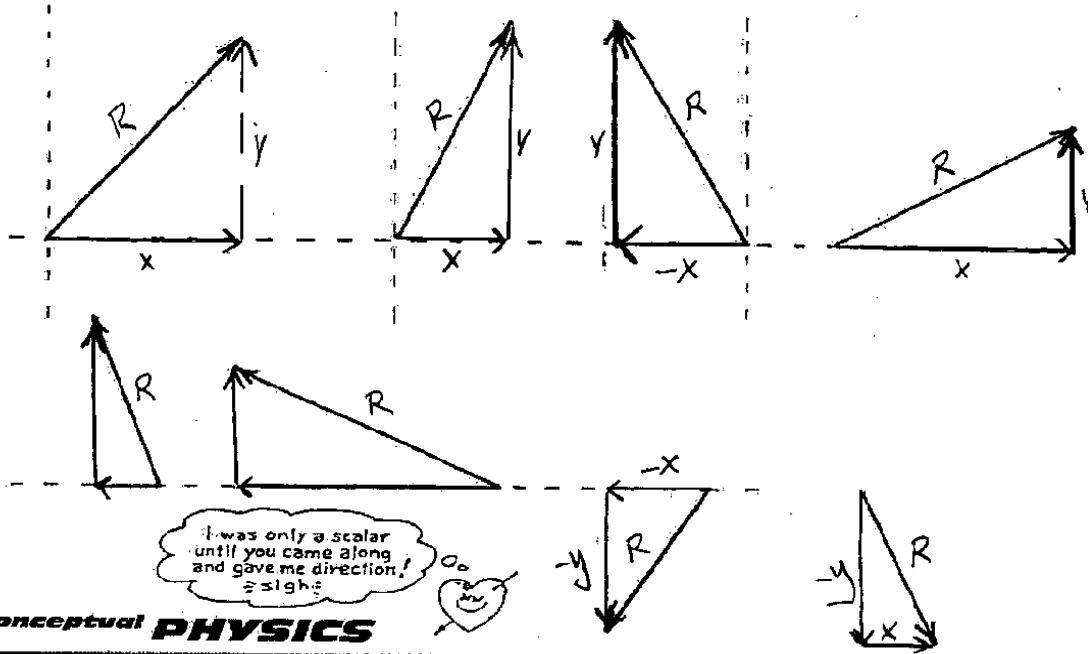
3-2

Vectors

Use the parallelogram rule to carefully construct the resultants for the eight pairs of vectors.



Carefully construct the vertical and horizontal components of the eight vectors.



I was only a scalar until you came along and gave me direction, $\hat{=}$ sign!

Conceptual **PHYSICS**

Tossed Ball

A ball tossed upward has initial velocity components 30 m/s vertical, and 5 m/s horizontal. The position of the ball is shown at 1-second intervals. Air resistance is negligible, and $g = 10 \text{ m/s}^2$. Fill in the boxes, writing in the values of velocity *components* ascending, and your calculated *resultant velocities* descending.

