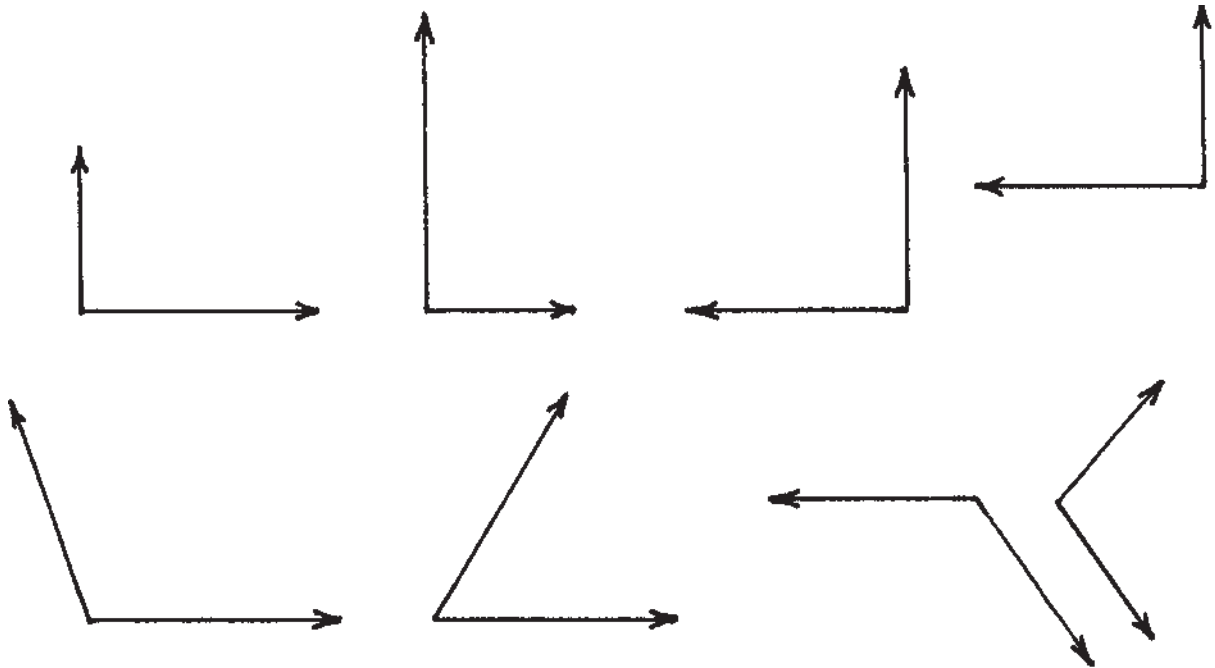


**Concept-Development
Practice Page**

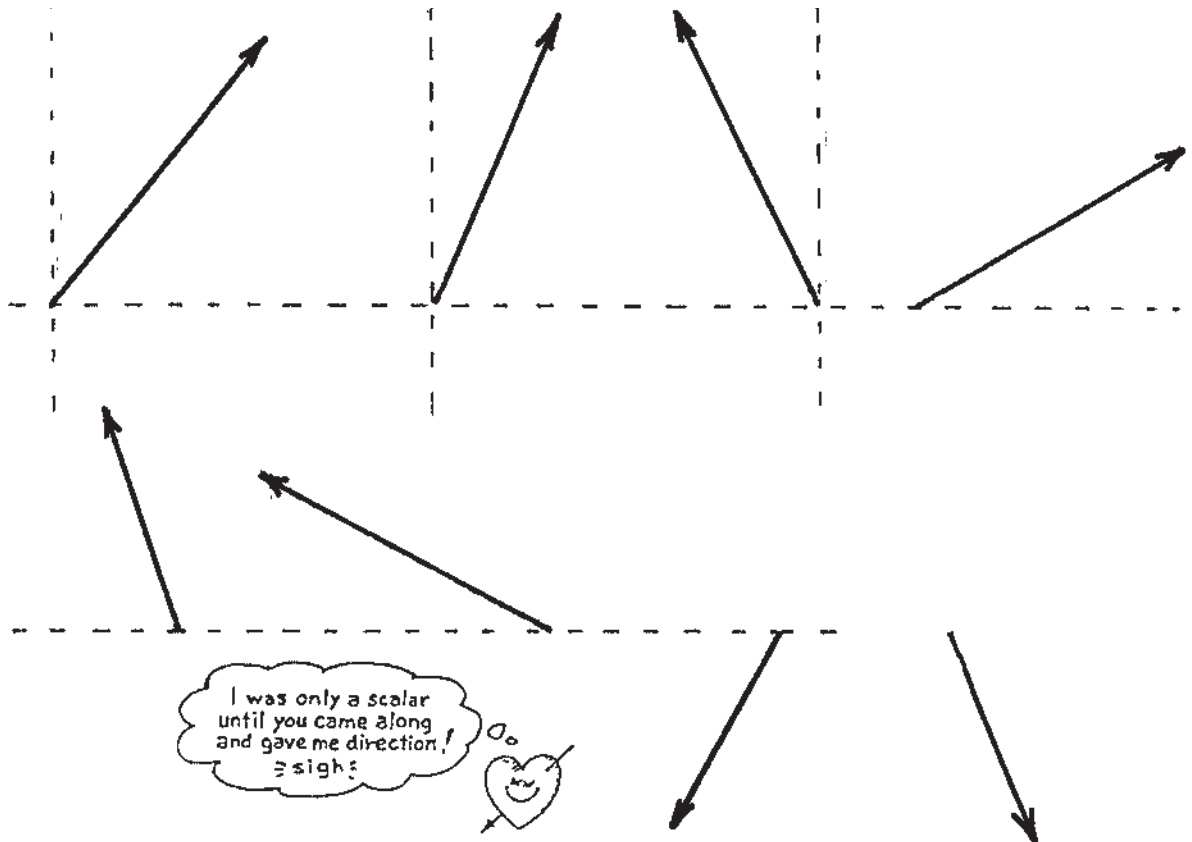
5-2

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.



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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.

