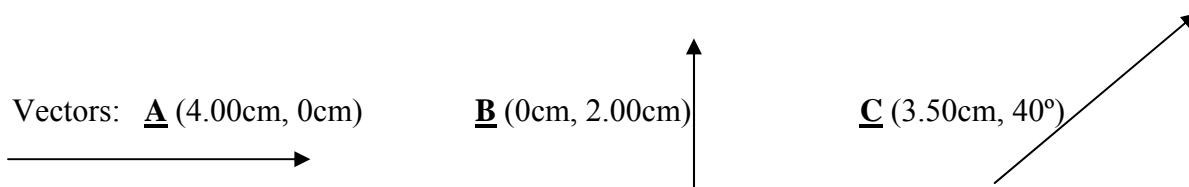


VECTOR EXERCISES



Sketch the following vectors on graph paper, to scale.

1. $\underline{\mathbf{D}} = \underline{\mathbf{A}} + \underline{\mathbf{B}}$

2. $\underline{\mathbf{E}} = 3\underline{\mathbf{A}}$

3. $\underline{\mathbf{F}} = \underline{\mathbf{A}} - \underline{\mathbf{B}}$

4. $\underline{\mathbf{G}} = \underline{\mathbf{A}} + \underline{\mathbf{B}} + \underline{\mathbf{C}}$

5. $\underline{\mathbf{H}} = \underline{\mathbf{A}} - \underline{\mathbf{C}}$

For each of the five vectors you've constructed, estimate, using ruler and protractor, their components in two forms, (D_x, D_y) and (D, θ) .

Calculate, to 3 significant figures, the vector components H_x, H_y, H, θ_H .