Graphical Vector Addition, Subtraction and Scalar Multiplication

Consider the following vectors:

$$\rightharpoonaccent{C}$$

$$\rightharpoonaccent{F}$$

$$\rightharpoonaccent{B}$$

$$\rightharpoonaccent{E}$$

$$\rightharpoonaccent{A}$$

$$\rightharpoonaccent{D}$$

Sketch the Following Vectors:

$\rightharpoonaccent{G}= \rightharpoonaccent{A}+\rightharpoonaccent{B}$ $\rightharpoonaccent{H}= \rightharpoonaccent{A}+\rightharpoonaccent{C}$ $\rightharpoonaccent{I}= \rightharpoonaccent{C}+\rightharpoonaccent{A}$

$\rightharpoonaccent{J}= \rightharpoonaccent{D}+\rightharpoonaccent{E}$ $\rightharpoonaccent{K}= \rightharpoonaccent{E}+\rightharpoonaccent{D}$ $\rightharpoonaccent{L}= \rightharpoonaccent{A}+\rightharpoonaccent{D}+\rightharpoonaccent{B}$

$\rightharpoonaccent{M}= \rightharpoonaccent{E}+\rightharpoonaccent{F}$ $\rightharpoonaccent{N}= \rightharpoonaccent{F}+\rightharpoonaccent{E}$ $\rightharpoonaccent{O}= \rightharpoonaccent{E}+\rightharpoonaccent{B}+\rightharpoonaccent{F}$

$\rightharpoonaccent{P}= \rightharpoonaccent{A}-\rightharpoonaccent{B}$ $\rightharpoonaccent{Q}= \rightharpoonaccent{A}-\rightharpoonaccent{D}$ $\rightharpoonaccent{R}= \rightharpoonaccent{E}-\rightharpoonaccent{C}$

KEY

$$\rightharpoonaccent{C}$$

$$\rightharpoonaccent{B}$$

$$\rightharpoonaccent{A}$$

$$\rightharpoonaccent{I}$$

$$\rightharpoonaccent{A}$$

$$\rightharpoonaccent{H}$$

$$\rightharpoonaccent{A}$$

$$\rightharpoonaccent{G}$$

$$\rightharpoonaccent{C}$$

$$\rightharpoonaccent{E}$$

$$\rightharpoonaccent{D}$$

$$\rightharpoonaccent{B}$$

$$\rightharpoonaccent{K}$$

$$\rightharpoonaccent{D}$$

$$\rightharpoonaccent{E}$$

$$\rightharpoonaccent{A}$$

$$\rightharpoonaccent{J}$$

$$\rightharpoonaccent{D}$$

$$\rightharpoonaccent{L}$$

$$\rightharpoonaccent{E}$$

$$\rightharpoonaccent{B}$$

$$\rightharpoonaccent{F}$$

$$\rightharpoonaccent{O}$$

$$\rightharpoonaccent{N}$$

$$\rightharpoonaccent{F}$$

$$\rightharpoonaccent{E}$$

$$\rightharpoonaccent{F}$$

$$\rightharpoonaccent{M}$$

$$\rightharpoonaccent{E}$$

- $\rightharpoonaccent{D}$

$$\rightharpoonaccent{P}$$

-$\rightharpoonaccent{B}$

$$\rightharpoonaccent{A}$$

$$\rightharpoonaccent{E}$$

$$\rightharpoonaccent{R}$$

- $\rightharpoonaccent{C}$

$$\rightharpoonaccent{Q}$$

$$\rightharpoonaccent{A}$$