

6.2 Vector Addition

556. $\vec{w} = \vec{u} + \vec{v}$

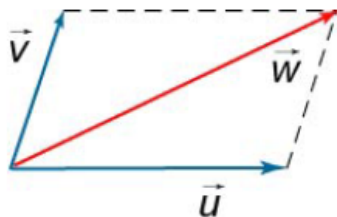


Figure 76.

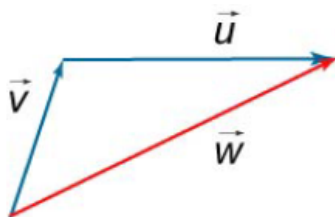


Figure 77.

557. $\vec{w} = \vec{u}_1 + \vec{u}_2 + \vec{u}_3 + \dots + \vec{u}_n$

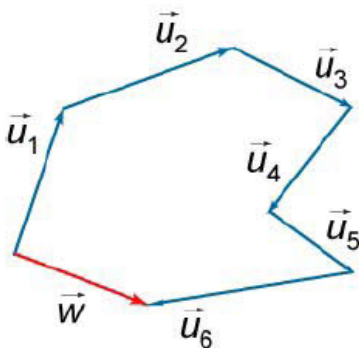


Figure 78.

558. Commutative Law

$$\vec{u} + \vec{v} = \vec{v} + \vec{u}$$

559. Associative Law

$$(\vec{u} + \vec{v}) + \vec{w} = \vec{u} + (\vec{v} + \vec{w})$$

560. $\vec{u} + \vec{v} = (X_1 + X_2, Y_1 + Y_2, Z_1 + Z_2)$