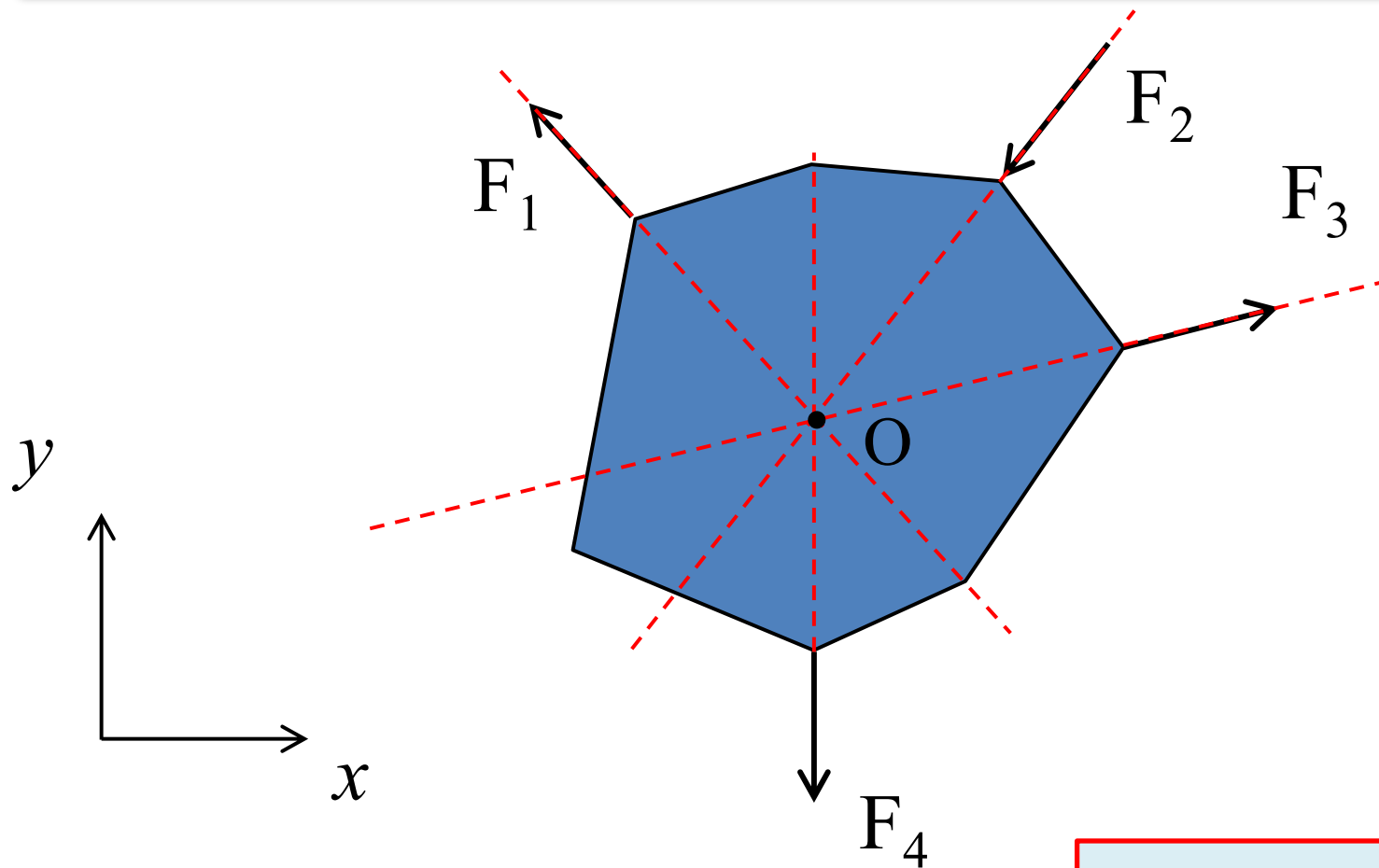# Two-Dimensional Equilibrium of a Point Equations of Equilibrium

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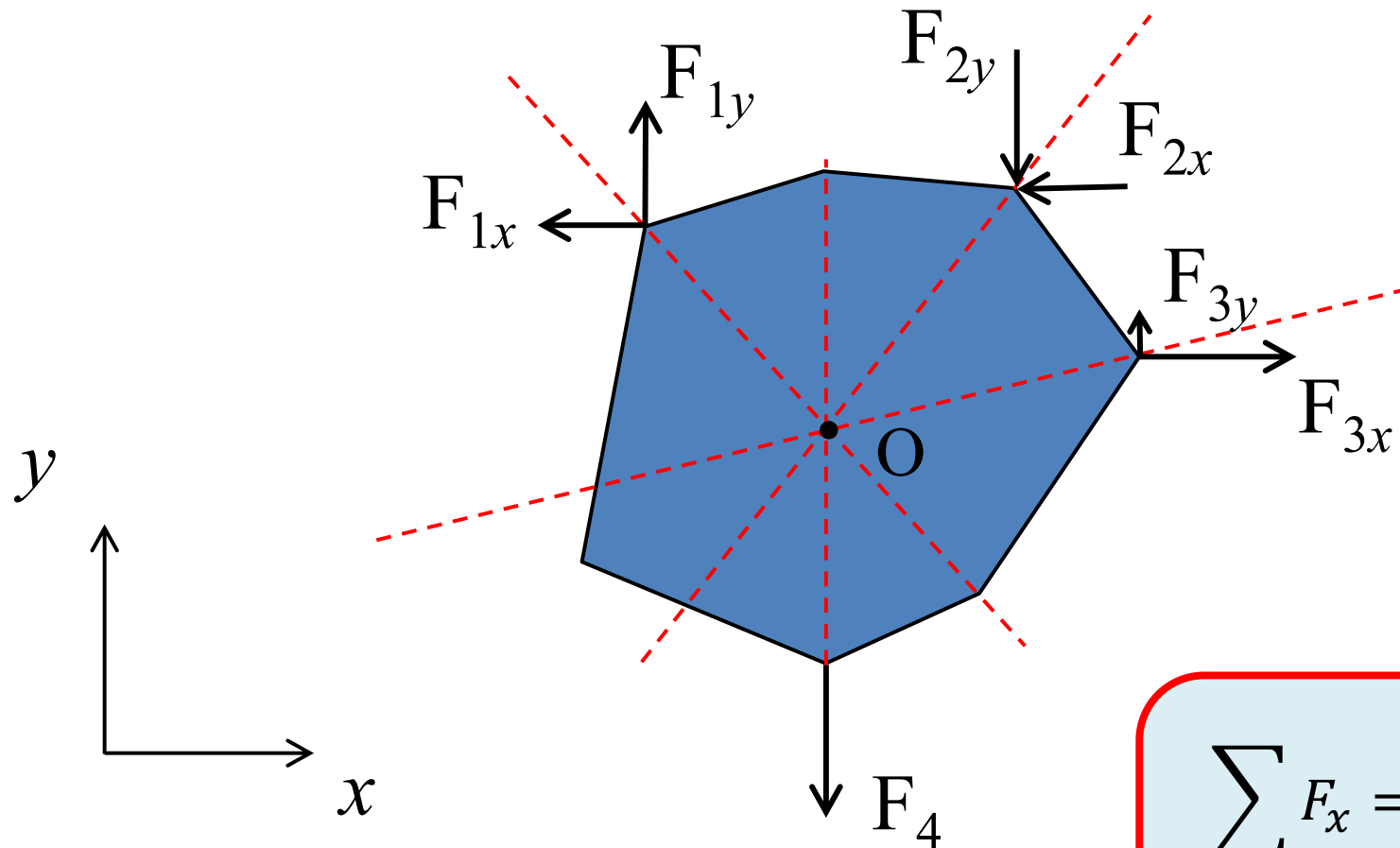
Equilibrium of a Planar, Concurrent Force System

Equilibrium Condition from Newton's First Law

$$\vec{R} = \sum \vec{F_i} = \vec{0}$$

Equations of Equilibrium for a Planar, Concurrent Force System

Two Scalar Equations of Equilibrium

$$\sum F_x = 0$$

$$\sum F_y = 0$$