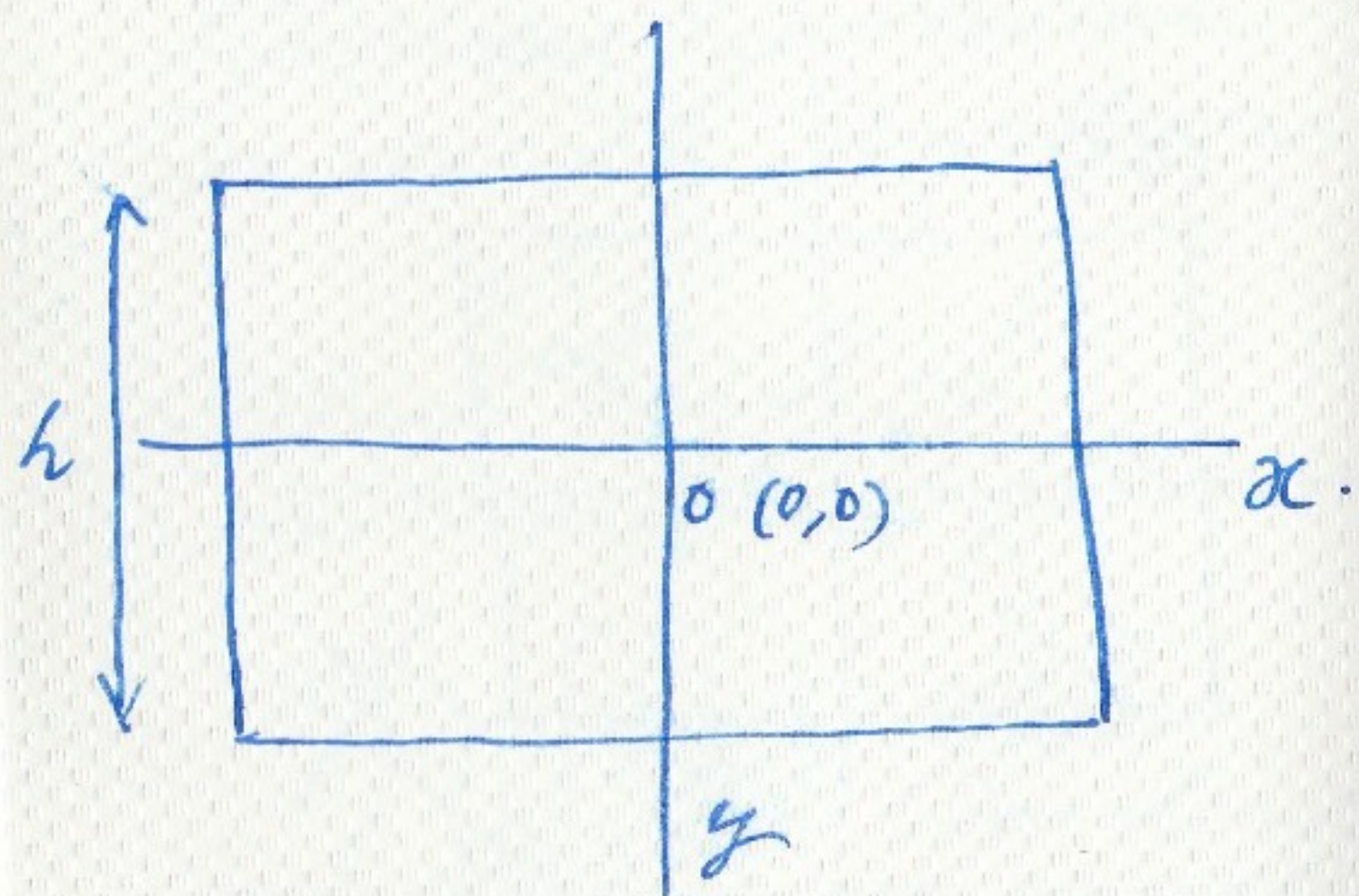
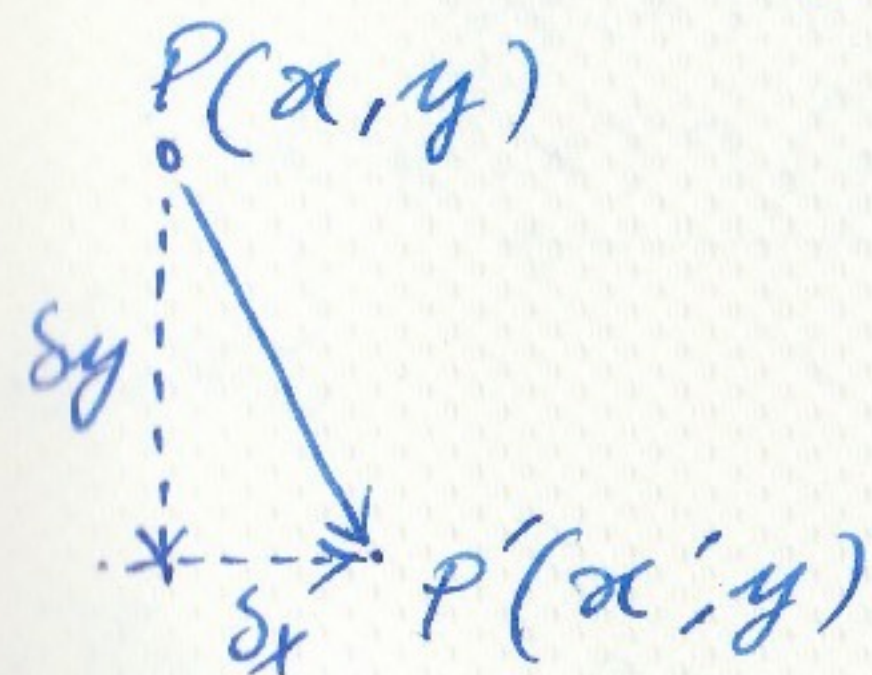
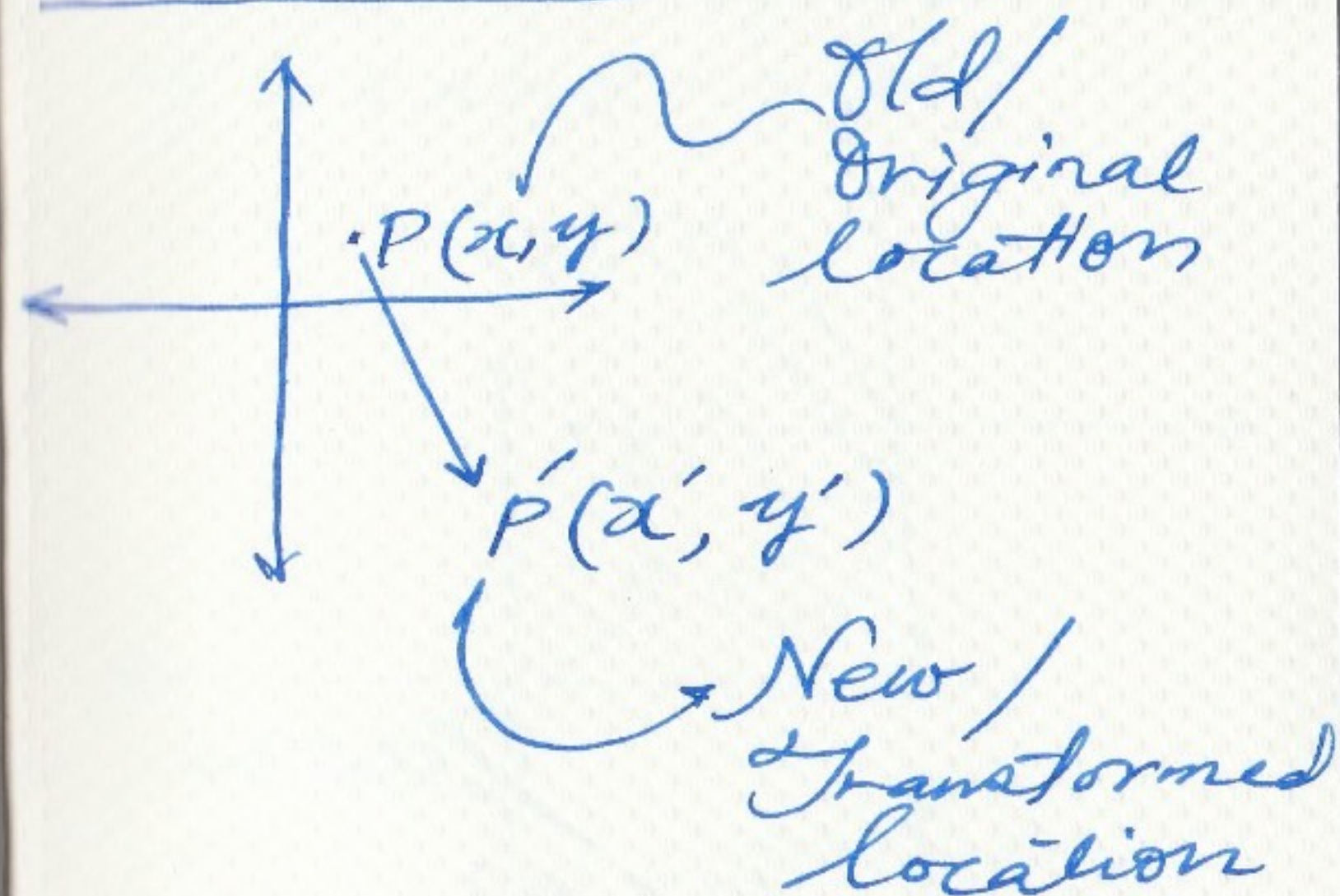


Screen bounds.



w : width, h : height.

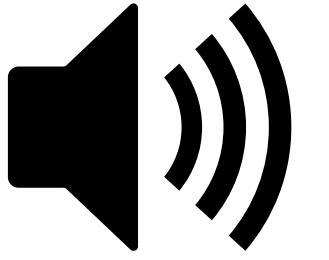
Translation



$$x' = x + \delta x$$

$$y' = y + \delta y$$

Rotation



- The second basic transformation is rotation, where you also move a point from one location to another but the new location is yielded by applying a rotation of let's say by θ angle, of that point by keeping the origin as the pivot.
- Mathematically, this is similar to have an object moving on a circle of the radius as distance between origin and the original point.
- And then, moving along the circumference by θ radians or degrees as given, usually in the clockwise direction.
- This in premise lays foundation for a new coordinate system, which is called as Polar Coordinate System. The origin can instead be called as Pole.