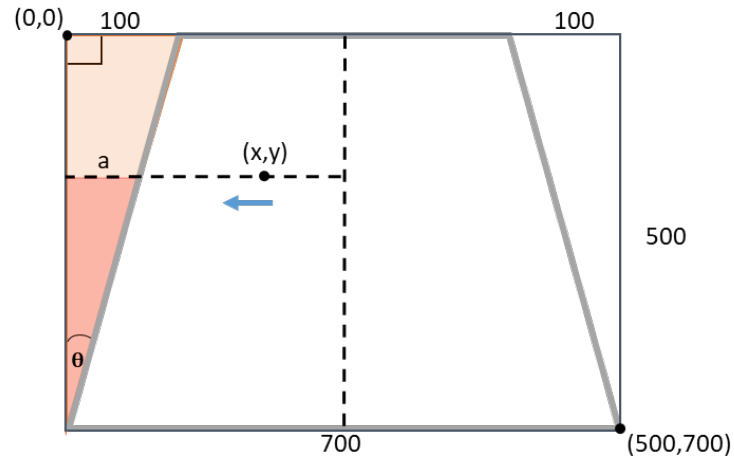




$$\tan(\theta) = \frac{100}{500} = \frac{a}{500 - y}$$

$$a = 100 - 0.2y$$

$$ratio(R) = \frac{350 - x}{350 - a}$$

$$new\ x = x - a * R$$