$$SP = \sqrt{S^2 + R^2} \implies S = \sqrt{S^2 + R^2}\cos\alpha$$

$$\frac{\sqrt{S^2+R^2}}{S} = \cos\alpha \qquad \text{inoltre}$$

$$\lim_{S \to -\infty} \frac{\sqrt{S^2+R^2}}{S} = \cos\alpha = -1 \implies \alpha = \pi$$

$$\lim_{F \to +\infty} \frac{\sqrt{F^2+R^2}}{F} = \cos\beta = +1 \implies \beta = 0$$