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α, β are the points in the complex plane such as;

$$\begin{cases} \alpha = (t + t^2 i)(2 + i) \\ \beta = (s + si)(3 + 4i) \end{cases}$$

C_1 and C_2 are the loci of the points α and β respectively, when variable t and s change from $-\infty$ to ∞. What is the area of S enclosed by C_1 and C_2?