$$b = s^{2} \quad b^{2} + 10b + 169 = 0 \quad b_{1/2} = \frac{10 \pm 100 - 4.169}{2}$$

$$b = 15 = 15112; \qquad = 5 \pm 12i$$

$$b = 15^{2} + 12^{2} \quad e^{i + 4n(1/2s)} = 13 e^{i 1.17 + 6 + 2\pi k}$$

$$s_{1/2} \quad t^{2} \quad s_{1} = 103 e^{i 0.58k}$$

$$s_{1/2} \quad s_{1} = 103 e^{i 0.58k}$$

$$s_{1/2} \quad s_{2} = 103 e^{i 0.58k}$$

$$s_{3} = 2 + 3i \quad s_{4} = 2 - 3i$$

$$s_{4} = 2 - 3i$$

$$\begin{array}{lll}
\text{Res}_{S=2.35} &= & \text{Lim}_{S=2-2.35} & (S+2+3) \cdot \frac{-S^2+9}{(S+2+3) \cdot (S+2-3) \cdot (S+2-3) \cdot (S-2-3) \cdot (S-2+3)} \\
&= & \frac{-(-2-3)(-2-3)}{(2-3)(-2-3) \cdot (2-3)(-2-3) \cdot (2-2)(-2-3)} \\
&= & \frac{14-12i}{-6i\cdot -4(-4-6i)} &= & \frac{14-12i}{144-96i}
\end{array}$$

$$= \frac{(14 - 12i)(144 + 96i)}{144^{2} + 96^{2}} = \frac{11}{109} - \frac{1}{78i}$$

Same procedur for residue at 8 = -2+3i

$$\frac{1}{8} = \lim_{8 \to -2+3i} \frac{(s+2-3i)}{(s+2+3i)(s+2-3i)} = \frac{11}{104} + \frac{1}{78i}$$
The two norm is $||6||_{0} = \sqrt{2} = 0.9899331$