LÖSUNG ZU 16f:

$x^4 + 18x^2 + 72 = 0$ /Substitution $x^2 = u$

$u^2 + 18u + 72 = 0$ /Anwendung der kleinen Lösungsformel

$u_{1,2} = -9 \pm \sqrt{\frac{324}{4} - 72}$

$u_{1,2} = -9 \pm \sqrt{81 - 72}$

$u_{1,2} = -9 \pm \sqrt{9}$

$u_{1,2} = -9 \pm 3$

$u_1 = -6$ → $\sqrt{}$ → $x_1 = -\sqrt{-6}$ $x_2 = \sqrt{-6}$ → keine Lösung in $\mathbb{R}$

$u_2 = -12$ → $\sqrt{}$ → $x_3 = -\sqrt{-12}$ $x_4 = \sqrt{-12}$ → keine Lösung in $\mathbb{R}$

$L = \{\ \}$