

$$\frac{u^{6} + \frac{\left(2\sqrt{2} + 1\right) \kappa_{9}^{2}}{4\ell^{2} mg} u^{2} - \left(\frac{\left(2\sqrt{2} + 1\right) \kappa_{9}^{2}}{4\ell^{2} mg}\right)^{2} = 0}{\ell^{6} + \frac{\left(2\sqrt{2} + 1\right) 9 \times u^{9} N m^{2} e^{x} \left(3 \times 10^{4} e^{x}\right)^{2}}{4\ell \left(5 \mu n\right)^{2} 114 \ell N} u^{2} - \frac{\left(2\sqrt{2} + 1\right) 9 \times u^{9} N m^{2} e^{x} \left(3 \times 10^{4} e^{x}\right)^{2}}{4\ell \left(5 \mu n\right)^{2} 114 \ell N} u^{2} - \frac{\left(2\sqrt{2} + 1\right) 27}{4\ell \left(5 \mu n\right)^{2} 114 \ell N} u^{2} - \frac{\left(2\sqrt{2} + 1\right) 27}{352} u^{2} - \frac{\left(2\sqrt{2} + 1\right) 27}{352} u^{2} - 0}{2\ell \left(2\sqrt{2} + 1\right) 27} u^{2} - \frac{\left(2\sqrt{2} + 1\right) 27}{352} u^{2} - 0 u^{2} - \frac{\left(9 + 4\sqrt{2}\right) 729}{145924} u^{2} - \frac{\left(9 + 4\sqrt{2}\right) 729}{145924} u^{2} - 0} u^{2} - \frac{\left(9 + 4\sqrt{2}\right) 729}{145924} u^{2} - 0 u^{2} - \frac{\sin^{2}\left(u\right)}{4\ell + 2} u^{2} - \frac{\sin^{2}\left(u\right)}{4\ell + 2} u^{2} - \frac{(9 + 4\sqrt{2}) 729}{145924} u^{2} - 0} u^{2} - \frac{\sin^{2}\left(u\right)}{4\ell + 2} u^{2} - \frac{\cos^{2}\left(u\right)}{4\ell + 2} u^{2} - \frac{\cos^{$$

