



Systems of Ordinary Differential Equations > Nonlinear Systems of Three and More Equations

11. $x''_{tt} = cF_2 - bF_3$, $y''_{tt} = aF_3 - cF_1$, $z''_{tt} = bF_1 - aF_2$, where $F_n = F_n(x, y, z, t, x'_t, y'_t, z'_t)$. ■

Integral:

$$ax + by + cz = C_1t + C_2,$$

where C_1 and C_2 are arbitrary constants.