$$4.0kx(t) - \frac{10.0kx(t)}{\sqrt{x^2(t) + y^2(t) + z^2(t) + 20z(t) + 100}}$$

$$- \frac{10.0kx(t)}{\sqrt{x^2(t) + y^2(t) + z^2(t) - 20z(t) + 100}}$$

$$- \frac{10.0kx(t)}{\sqrt{x^2(t) + 20x(t) + y^2(t) + z^2(t) + 100}}$$

$$- \frac{100.0k}{\sqrt{x^2(t) + 20x(t) + y^2(t) + z^2(t) + 100}}$$

$$- \frac{10.0kx(t)}{\sqrt{x^2(t) - 20x(t) + y^2(t) + z^2(t) + 100}}$$

$$+ \frac{100.0k}{\sqrt{x^2(t) - 20x(t) + y^2(t) + z^2(t) + 100}} + 1.0$$

(1)