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(%i1) kill(all)$
      depends([v,x],t)$
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(%i2) eq14:'diff(v,t)=(G*n*Tms*Gc)/(m*Rw)*(1-Tml/Tms-(G/(2*pi*Rw*Vmu))*v);
```

$$(\%o2) \quad \frac{d}{dt} v = \frac{Gc \, n \, Tms \, G \left(-\frac{v \, G}{2 \, \pi \, Rw \, Vmu} - \frac{Tml}{Tms} + 1 \right)}{m \, Rw}$$

```
(%i3) qv: factor(ic1(ode2(eq14,v,t),v=0,t=0));
```

$$(\%o3) \quad v = \frac{2 \, \pi \, Rw \, (Tms - Tml) \, Vmu \, e^{-\frac{Gc \, n \, t \, Tms \, G^2}{2 \, \pi \, m \, Rw^2 \, Vmu}} \left(e^{\frac{Gc \, n \, t \, Tms \, G^2}{2 \, \pi \, m \, Rw^2 \, Vmu}} - 1 \right)}{Tms \, G}$$

```
(%i4) assume(notequal(Gc*n*Tms*G,0))$
      qx: factor(ic1(ode2(ev(qv,v='diff(x,t)),x,t),x=0,t=0));
```

$$(\%o5) \quad x = \frac{2 \, \pi \, Rw \, (Tms - Tml) \, Vmu \, e^{-\frac{Gc \, n \, t \, Tms \, G^2}{2 \, \pi \, m \, Rw^2 \, Vmu}} \left(Gc \, n \, t \, Tms \, G^2 \, e^{\frac{Gc \, n \, t \, Tms \, G^2}{2 \, \pi \, m \, Rw^2 \, Vmu}} - 2 \, \pi \, m \, Rw^2 \, Vmu \, e^{\frac{Gc \, n \, t \, Tms \, G^2}{2 \, \pi \, m \, Rw^2 \, Vmu}} + 2 \, \pi \, m \, Rw^2 \, Vmu \right)}{Gc \, n \, Tms^2 \, G^3}$$