Exact de tipal
$$\frac{dv}{dt} = g\left(\frac{a_1 + b_1 x + c_1}{a_1 + b_2 x + c_2}\right)$$
 and $\frac{a_1 + b_2 x + c_1}{a_1 + b_2 x + c_2}$ and $\frac{a_1 + b_2 x + c_2}{a_1 + b_2 x + c_2}$ and $\frac{a_1 + b_2 x + c_2}{a_1 + b_2 x + c_2}$ and $\frac{a_1 + b_2 x + c_2}{a_1 + b_2 x + c_2 + c_2}$ be face solved a sistenul sq. $\frac{a_1 + b_2 x + c_2 + c_2}{a_1 + b_2 x + c_2 + c_2}$ or solved $\frac{a_1 + b_2 x + c_2 + c_2}{a_1 + b_2 x + c_2 + c_2}$ or solved $\frac{a_1 + a_1 x + c_2 + c_2}{a_1 + c_2 x + c_3}$ and $\frac{a_1 + c_2 x + c_3}{a_1 + c_2 x + c_3}$ and $\frac{a_1 + c_2 x + c_2}{a_1 + c_2 x + c_3}$ and $\frac{a_1 + c_2 x + c_3}{a_1 + c_2 x + c_3}$ and $\frac{a_1$

=)
$$\frac{1}{3}(2y - \frac{1}{3} \log |3y+7|) = t+c$$
, $c \in \mathbb{R}$.

 $\int \frac{3}{3}(2t-X) - \frac{1}{3} \log |6t-3x+5| = t+c$, $c \in \mathbb{R}$.

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$$\int \frac{2^{-t}}{3^{-2}+4^{2}} dt^{2} = \int \frac{2^{-t}}{(2-\frac{t}{2})^{2}+\frac{1}{4}+3} dt^{2} = \int \frac{2^{-t}}{(2-\frac{t}{2})^{2}+\frac{11}{4}} dt^{2}$$

$$\int \frac{2^{-t}}{2^{-t}} dt^{2} = \frac{1}{2^{-t}} dt^{2} = \int \frac{1}{2^{-t}} dt^{2} dt^{2} dt^{2} = \int \frac{1}{2^{-t}} dt^{2} dt^{2} dt^{2} + \int \frac{1}{2^{-t}} dt^{2} dt^{2} = \int \frac{1}{2^{-t}} dt^{2} dt^{2} dt^{2} + \int \frac{1}{2^{-t}} dt^{2} dt^{2} = \int \frac{1}{2^{-t}} dt^{2} dt^{2} dt^{2} dt^{2} = \int \frac{1}{2^{-t}} dt^{2} dt^{2} dt^{2} dt^{2} dt^{2} = \int \frac{1}{2^{-t}} dt^{2} dt^$$

```
Ecualis de ordin superior care admit reducerea
      1) Fot, x (le), x (le+1) ..., x (m) = 0, le>1.
       Schimbare de variabilà y=x ( ) = > = ( , y, y), ..., y ( u - k) = 0
 emogend f(t, \frac{x'}{x}, \frac{x''}{x}, \dots, \frac{x^{(m)}}{x}) = 0.
       Schiubare de variabilà y=\frac{\lambda'}{\lambda} \Rightarrow G(X,XY,...,Y^{(m-1)})=0
Schimbare de voriabilà x'=y(x) \Rightarrow G(x,y,y',...,y'^{(n-1)})=0
     4) Ecuati Euler, F(xtx), t2x", ..., +"x(") = 0
     Schimbare de variabila (tl=e = > 6(3, y'), , y (")=0,
     · Ecuatii liniare de ordinal al II-lea cu conficienti constanti
    x"+ax"+6 x=0, q6 ER.
    Asserieu ecustia caracteristica 22+a+16=0 [12
   del generala.
 - Andz ER, Anthz => xch=e, e it + ezetzt, e, ger
 - 1 = 1 = 1 = 1 = x ex = c, e t + c; te t, c, c, ex
- 1 = xtip, x, p ech => xtl) = cire cos (pt) + ore. 8'u (pt), ci, cresh.
       1) Sa se determine soluția generala:
   a) tx"+x+t=0.
                          -> tipul 1)
     Soh. var. g=x'
                           dy = - = + + + + ) , + + 0, p +>0.
  ty+y+t=0 =)
                                 y ec. afina
```

The stain asserts
$$y' = -\frac{1}{t}$$
 by solution $y(t) = e \cdot e^{\int -\frac{1}{t} dt} = e^{\int -\frac$

 $y(s) = x(e^{s})$ $e^{s} = t$ y(lnt) = x(d) s = ent s = ent $x(t) = c_1 \cdot e^{-s}$ $x(t) = c_1 \cdot e^{-s}$