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so many fake sites. this is the first one which worked! Many thanks

```
> G:=int(f(x)*diff(f(x),x))/x;
G:=int(f(x)*diff(f(x),x))/x;
> InvariantEquation(G, x(t), y(t), order=2, explicit)
x(t) = -2t + f(x) * (x(t) - 2t) / (x(t)^2 + 1)
y(t) = f(y) * (y(t) - 2t) / (y(t)^2 + 1)
> To verify this result, SymmetryTest also accepts an infinitesimal generator operator as a representation for the symmetry
> SymmetryTest(G, x(t), y(t))
(0)
Solve accepts a new optional argument, algebraically, to indicate that the solving variables and their derivatives are to be considered objects independent of each other.
Example
> eq1 := diff(y(x), x) = f(x);
eq2 := f'(y);
Solving eq. for y(x) means considering eq. an ordinary differential equation, the solution is thus y(x) = C1 * f'(x). To solve eq. for y(x) algebraically, considering y(x) and all its derivatives independent of each other, use
> Solve(eq1, algebraically)
y = y'
```

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