```
sol = DSolve[{a'[t] == a[t] / 9, b'[t] == Sin[t] * b[t], a[0] == -1, b[0] == 1}, {a, b}, t] //
    FullSimplify // Flatten
Plot[Evaluate[{a[t], b[t]} /. sol], {t, 0, 10}, WorkingPrecision → 20]
```

Out[38]= $\left\{a \to \text{Function}\left[\{t\}, -e^{t/9}\right], b \to \text{Function}\left[\{t\}, e^{1-\text{Cos}[t]}\right]\right\}$

Out[39]=