

```
solution = DSolve[y'[t] == -3 t^2 y[t] + t^2, y[t], t]
```

```
{ {y[t] -> 1/3 + e^{-t^3} c_1} }
```

```
f[t_] = y[t] /. solution[[1]]
```

```
F[t_] = Table[f[t] /. c_1 -> j, {j, -2.0, 4.0}]
```

```
Plot[{F[t]}, {t, -2.0, 3.0}]
```

