

The image shows the MATLAB R2013a interface. The Command Window displays the following code and output:

```

>> syms t s
>> f=2*exp(-1*t)*cos(10*t)-t^4+6*exp(-1*(t-10));
>> F=laplace(f,t,s)

F =

(2*(s + 1))/((s + 1)^2 + 100) - 24/s^5 + (6*exp(10))/(s + 1)

>> simplify(F)

ans =

(2*(s + 1))/((s + 1)^2 + 100) - 24/s^5 + (6*exp(10))/(s + 1)

>> pretty(ans)

      2 (s + 1)      24      6 exp(10)
      ----- - ---- + ----
      2      5      s + 1
(s + 1) + 100  s

```

The Workspace window shows the following variables:

Name	Value	Memory
F	<1x1 sym>	
ans	<1x1 sym>	
f	<1x1 sym>	
s	<1x1 sym>	
t	<1x1 sym>	

The Command History window shows the following commands:

```

simplify(F)
pretty(ans)
clear
f=2*exp(-t)*cos(10*t)-t^4+6*
syms t s
f=2*exp(-t)*cos(10*t)-t^4+6*
f=2*exp(-1*t)*cos(10*t)-t^4+
f=2*exp(-1*t)*cos(10*t)-t^4+
F=laplace(f,t,s)
simplify(F)
pretty(ans)
-- 23.3.2014 11:45 --
syms t s
f=2*exp(-1*t)*cos(10*t)-t^4+
F=laplace(f,t,s)
simplify(F)
pretty(ans)

```

(Ödev -1)

The image shows the MATLAB R2013a interface. The Command Window contains the following code:

```

>> clear
>> syms t s
>> F = ( s^2 + 9*s + 19 ) / ((s+1)*(s+2)*(s+4));
>> ilaplace(F)

ans =

(11*exp(-t))/3 - (5*exp(-2*t))/2 - exp(-4*t)/6

>> simplify(ans)

ans =

(11*exp(-t))/3 - (5*exp(-2*t))/2 - exp(-4*t)/6

>> pretty(ans)

```

The Workspace window shows the following variables:

Name	Value	Memory
F	<1x1 sym>	
ans	<1x1 sym>	
s	<1x1 sym>	
t	<1x1 sym>	

The Command History window shows the following commands:

```

pretty(ans)
-2 (s + 1) 24 6 exp(10)
----- + -----
-2 5 s + 1
(s + 1) + 100 s
clc
clear
syms t s
F = ( s^2 + 9*s + 19 ) / ((s
ilaplace(F)
simplify(ans)
pretty(ans)

```

(Ödev -2)