

13.29 Use MATLAB to solve Problem 13.27.

SOLUTION:

a)

```
EDU> syms s t
EDU> ilaplace(s^2/((s+2)*(s^2+2*s+1)))
```

ans =

$4\exp(-2t) + t\exp(-t) - 3\exp(-t)$

b)

```
EDU> syms s t
EDU> ilaplace(1/(s*(s+4)^2))
```

ans =

$\frac{1}{16} - \frac{1}{16}(1+4t)\exp(-4t)$