

13.20 Use MATLAB to solve Problem 13.19. **CS**

SOLUTION:

a)

```
EDU> syms s t
EDU> ilaplace(s*(s+6)/((s+3)*(s^2+6*s+18)))

ans =

-exp(-3*t)+2*exp(-3*t)*cos(3*t)
```

b)

```
EDU> syms s t
EDU> ilaplace((s+4)*(s+8)/(s*(s^2+8*s+32)))

ans =

1+exp(-4*t)*sin(4*t)
```