

Question No. 5

Converting from the s-domain model to t-domain

```
1.commandwindow
2.clear
3.clc
4.syms s pi
5. f = pi/(s^2+(10*pi*s)+(24*pi^2))
6. bd = ilaplace(f)
7.pretty(bd)
```

commandwindow

f =

$\pi/(s^2 + 10\pi s + 24\pi^2)$

bd =

$\exp(-4\pi t)/2 - \exp(-6\pi t)/2$

$\exp(-4\pi t) \quad \exp(-6\pi t)$

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