

QUESTION 5

```
commandwindow

clear

clc

syms s pi
philip = pi / (s^2 + 10*pi*s + 24*pi^2)
phil = ilaplace (philip)
pretty (phil)
```

philip =

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

phil =

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

$\frac{\exp(-4\pi t)}{2} - \frac{\exp(-6\pi t)}{2}$

2

2