

$$G := \frac{3}{2s+1}$$

$$X := \frac{w}{s^2 + w^2}$$

$$Y := GX$$

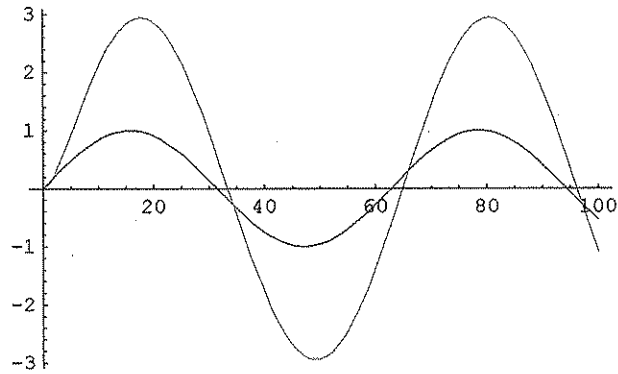
```
x := InverseLaplaceTransform[X, s, t]
```

```
y := InverseLaplaceTransform[Y, s, t]
```

```
<< Graphics`Colors`
```

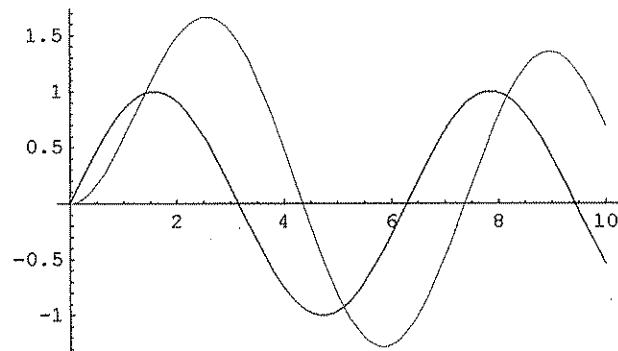
```
w = 0.1;
```

```
Plot[{x, y}, {t, 0, 100}, PlotRange -> All, PlotStyle -> {Black, Red}]
```



```
w = 1;
```

```
Plot[{x, y}, {t, 0, 10}, PlotRange -> All, PlotStyle -> {Black, Red}]
```



```
w = 10;
```

```
Plot[{x, y}, {t, 0, 10}, PlotRange -> All, PlotStyle -> {Black, Red}]
```

