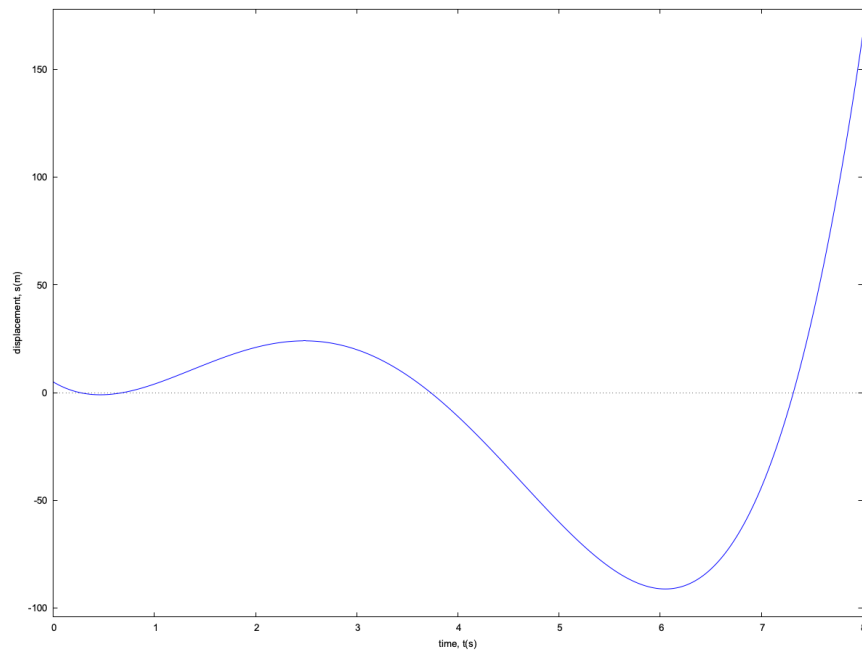


```
(% i8) s: t^4 - 12*t^3 + 38*t^2 - 28*t + 5;
```

```
(s)  $t^4 - 12t^3 + 38t^2 - 28t + 5$ 
```

```
(% i47) wxplot2d([s],[t,0,8], [xlabel,"time, t(s)"], [ylabel,"displacement, s(m)"]);
```

```
(% t47)
```



```
(% o47)
```

```
(% i31) factor(s);
```

```
(% o31)  $(t^2 - 8t + 5)(t^2 - 4t + 1)$ 
```

```
(% i32) solve(t^2-8*t+5, t);
```

```
(% o32)  $\left[t = 4 - \sqrt{11}, t = \sqrt{11} + 4\right]$ 
```

```
(% i33) solve(t^2-4*t+1, t);
```

```
(% o33)  $\left[t = 2 - \sqrt{3}, t = \sqrt{3} + 2\right]$ 
```

```
(% i37) root1 : 2 - sqrt(3);
      root2 : 4 - sqrt(11);
      root3 : 2 + sqrt(3);
      root4 : 4 + sqrt(11);
```

```
(root1)  $2 - \sqrt{3}$ 
```

```
(root2)  $4 - \sqrt{11}$ 
```

```
(root3)  $\sqrt{3} + 2$ 
```

```
(root4)  $\sqrt{11} + 4$ 
```

```
(% i42) float(root1);
```

```
(% o42) 0.2679491924311228
```

```
0.27 (to 2 d.p)
```

```
(% i43) float(root2);
```

```
(% o43) 0.6833752096446002
```

```
0.68 (to 2 d.p)
```

```
(% i44) float(root3);
```

```
(% o44) 3.732050807568877
```

```
3.73 (to 2 d.p)
```

```
(% i45) float(root4);
```

```
(% o45) 7.3166247903554
```

```
7.32 (to 2 d.p)
```