

```
> #Linear stability domain for explicit 3 stage RK method of order 3
```

```
> restart;
```

```
> with(plots):
```

```
Warning, the name changecoords has been redefined
```

```
> r:=1+z+1/2*z^2+1/6*z^3;
```

$$r := 1 + z + \frac{1}{2} z^2 + \frac{1}{6} z^3$$

```
> z:=x+I*y;
```

$$z := x + I y$$

```
> contourplot(abs(r),x=-3..3,y=-3..3,contours=[1],  
numpoints=1000,axes=boxed,view=[-3..3,-3..3]);
```

