

Komplexni koreny rovnice

```
> volby:=style=point,symbol=circle,color=blue,symbolsize=30;
```

```
volby := style = point, symbol = circle, color = blue, symbolsize = 30
```

```
> f:=x->x^8;
```

$$f := x \rightarrow x^8$$

```
> reseni := map(allvalues, {solve(f(x) = 1, x)});
```

$$\text{reseni} := \{-1, 1, -I, I, -\frac{\sqrt{2}}{2} - \frac{1}{2}I\sqrt{2}, -\frac{\sqrt{2}}{2} + \frac{1}{2}I\sqrt{2}, \frac{\sqrt{2}}{2} - \frac{1}{2}I\sqrt{2}, \frac{\sqrt{2}}{2} + \frac{1}{2}I\sqrt{2}\}$$

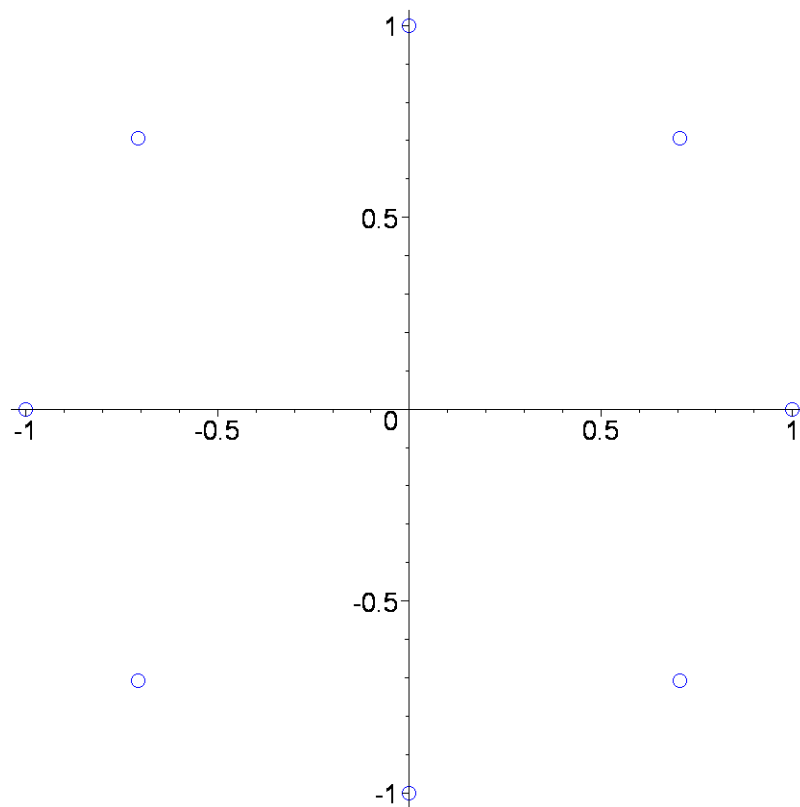
```
>
```

```
> body:=map(u->[Re(u),Im(u)], reseni);
```

```
body :=
```

$$\{[-1, 0], [0, -1], [0, 1], [1, 0], \left[-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right], \left[-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right], \left[\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right], \left[\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right]\}$$

```
> plot(body, volby);
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```
> Credit:= "I&C, p. 137" ;
```

```
Credit := "I&C, p. 137"
```

```
>
```