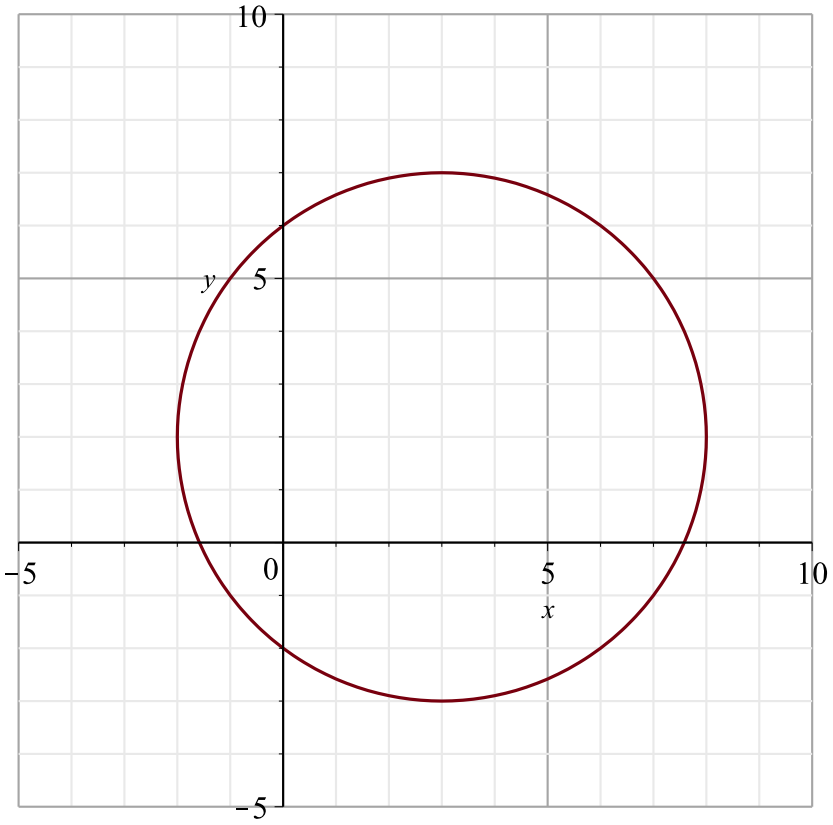
Cirklens ligning

Eksempel 9.3

```
> restart
> with(plots):
> implicitplot((x-3)^2+(y-2)^2=25, x=-10..10, y=-10..10, gridlines, view=[-5..10,-5..10], numpoints=10000)
```



Eksempel 9.5

```
> restart
> with(Student[Precalculus]):
> CompleteSquare(x^2+y^2-4·x+8·y+11=0)
```

$$(y+4)^2+(x-2)^2-9=0 \quad \textbf{(2.1)}$$

```
> %+9
```

$$(y+4)^2+(x-2)^2=9 \quad \textbf{(2.2)}$$

Dvs. ligningen beskriver en cirkel med centrum i $(2,-4)$ og radius 3 .

GeoGebra

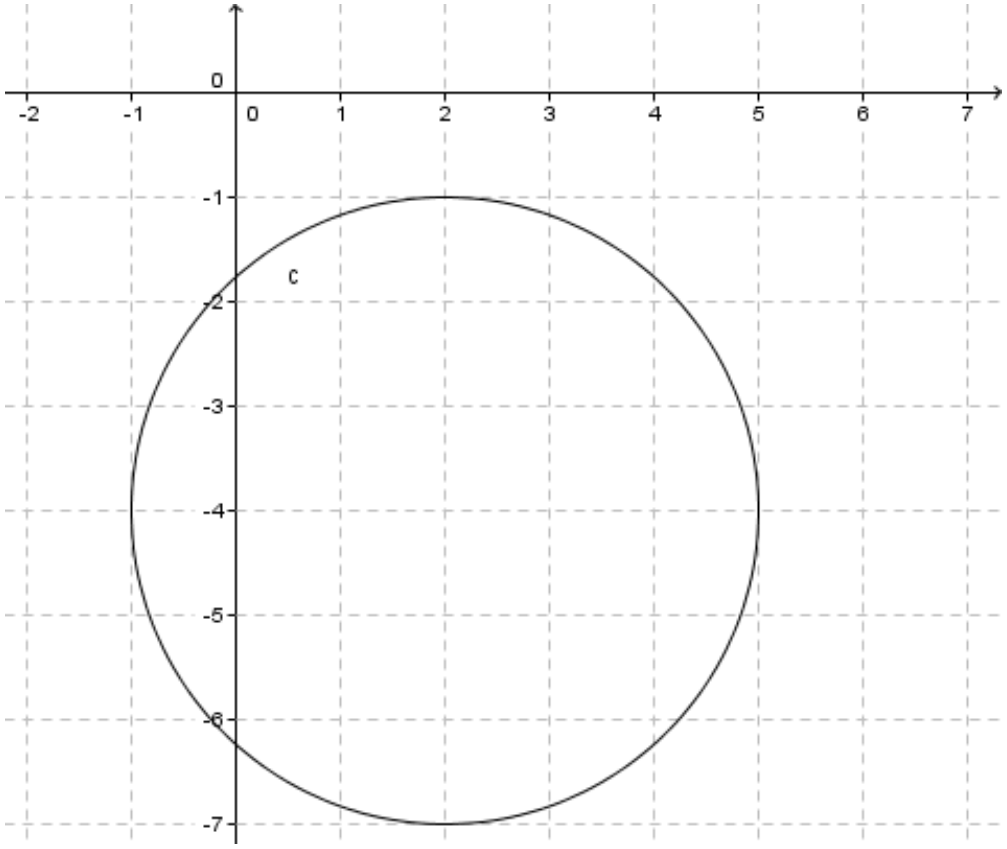
Konstruktion:

Input: x^2+y^2-4*x+8*y+11 = 0

Omskrivning automatisk:

Algebra vindue

Keglesnit

c: $(x - 2)^2 + (y + 4)^2 = 9$

Tegning automatisk: