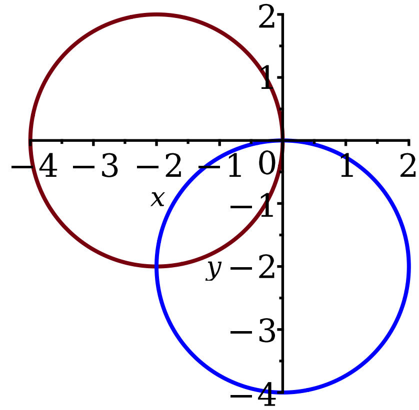
> $restart : with(plots) :$

```
> cr1:=implicitplot((x+2)^2+y^2=4,x=-4..0,y=-2..2,scaling=
constrained):
cr2:=implicitplot(x^2+(y+2)^2=4,x=-2..2,y=-4..0,scaling=
constrained, color=blue):
> display(cr1,cr2);
```



> *# dus dy(dx), y gaatvan -2 naar 0, x gaat van blauw naar bruin*

> *# bepaal limieten voor dx*

> $eq := y^2 + (x+2)^2 = 4 :$

> $solve(eq, y) :$

> *# we nemen de negatieve versie*

> *# hierboven is de lowerbound, nu upperbound*

> $eq := x^2 + (y+2)^2 = 4 :$

> $solve(eq, y) :$

> *# pak eerste versie, we gaan naar boven*

> *# dus result gebruikmakend van cartetische coords is:*

> $result := int\left(int\left((x^2+y^2)^{\frac{3}{4}}, x = -\mathrm{sqrt}(-x^2-4\cdot x)\,..(-2+\mathrm{sqrt}(-x^2+4))\right), y = -2\,..0\right) :$

> *# Maple kan dit niet calculeren, drm pool coords... [ZIE NOTES]*

> $evalf\left(int\left(int\left(r\cdot r^{\frac{3}{2}}, r = 0\,..-4\cdot\cos(\mathrm{theta})\right), \mathrm{theta} = \frac{\mathrm{Pi}\cdot 5}{4}\,..\frac{3\cdot\mathrm{Pi}}{2}\right) + int\left(int\left(r\cdot r^{\frac{3}{2}}, r = 0\,..-4\cdot\sin(\mathrm{theta})\right), \mathrm{theta} = \mathrm{Pi}\,..\frac{5\cdot\mathrm{Pi}}{4}\right)\right)$

$$4.270011865 \qquad (1)$$

>