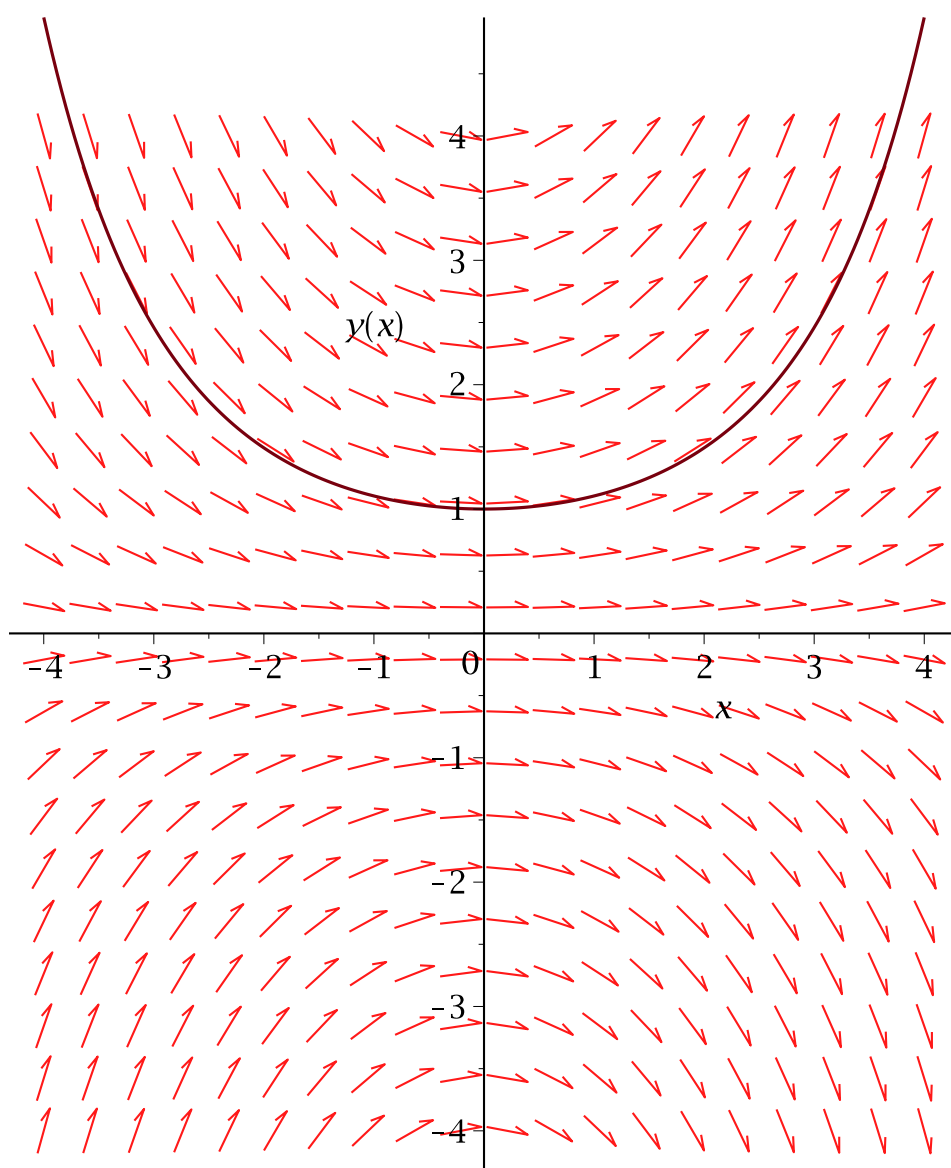


```
> restart;  
> ?DEtools  
> f:=(x,y)->0.2*x*y; f:= (x, y) → 0.2 x y (1)
```

```
> f(4,2); 1.6 (2)
```

```
> with(DEtools):  
with(plots):  
> P1:=dfieldplot(diff(y(x),x)=f(x,y(x)),  
y(x),x=-4..4,y=-4..4):  
> s:=x->exp(0.1*x^2); s:= x → e0.1 x2 (3)
```

```
> P2:=plot(s(x),x=-4..4):  
> display(P1,P2);
```

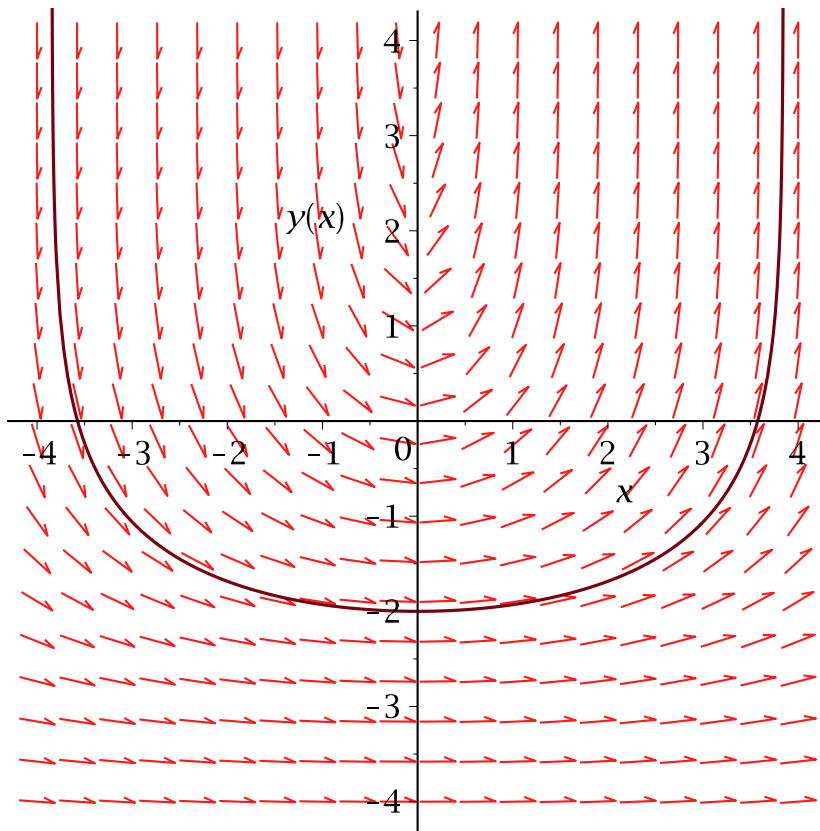


```

> P3:=dfieldplot(diff(y(x),x)=x*exp(y(x)),
  y(x),x=-4..4,y=-4..4):
> s2:=x->ln(2/(2*exp(2)-x^2));
      s2:=x->ln(2/(2e^2-x^2))
> P4:=plot(s2(x),x=-4..4):
> display(P3,P4);

```

(4)



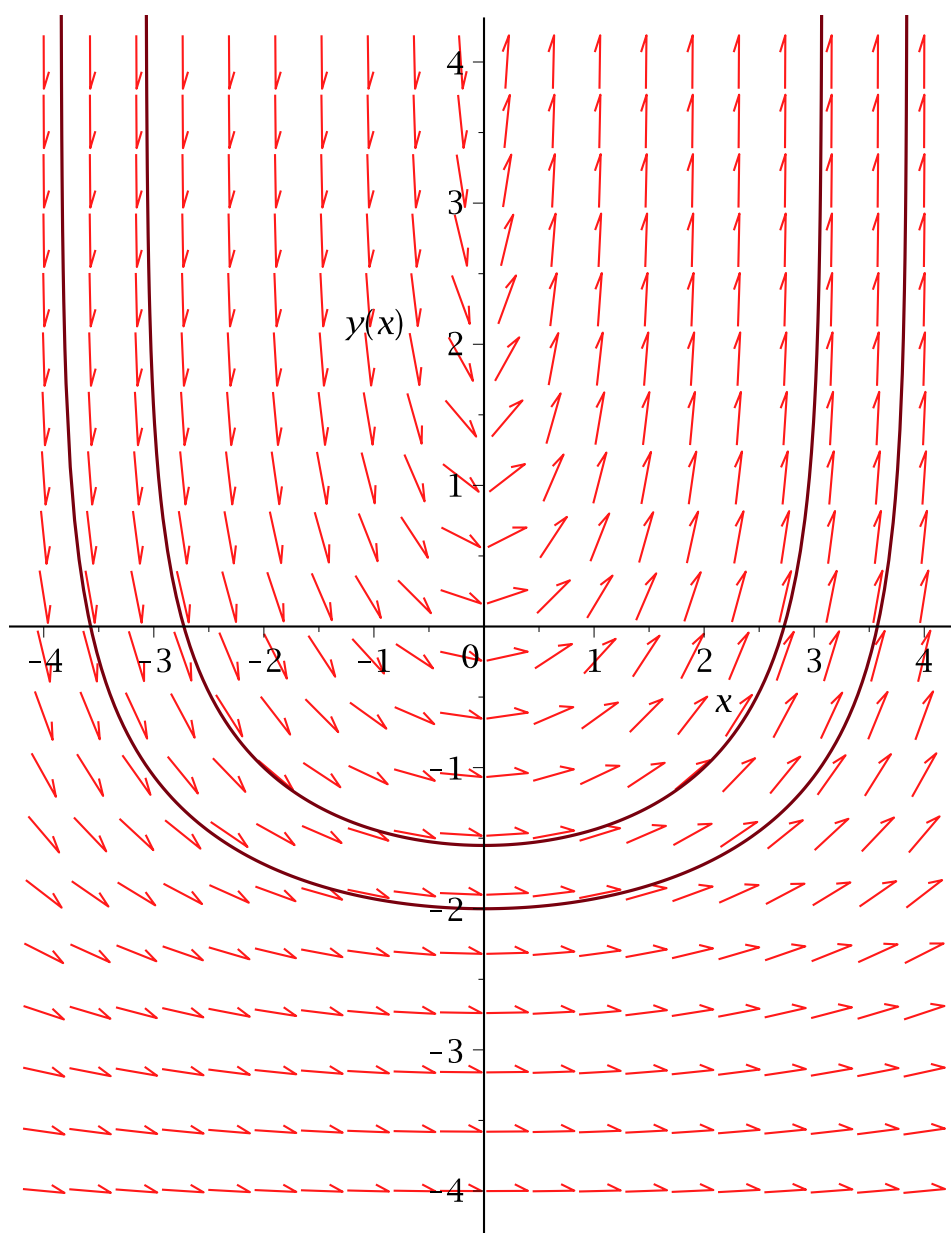
```
> s3:=x->ln(2/(4+2*exp(1)-x^2));
```

$$s3:=x \rightarrow \ln\left(\frac{2}{4+2e-x^2}\right)$$

(5)

```
> P5:=plot(s3(x),x=-4..4):
```

```
> display(P3,P5,P4);
```



```
> dfieldplot(diff(y(x),x)=(y(x)-1)*y(x),  
y(x),x=-4..4,y=-4..4);
```

