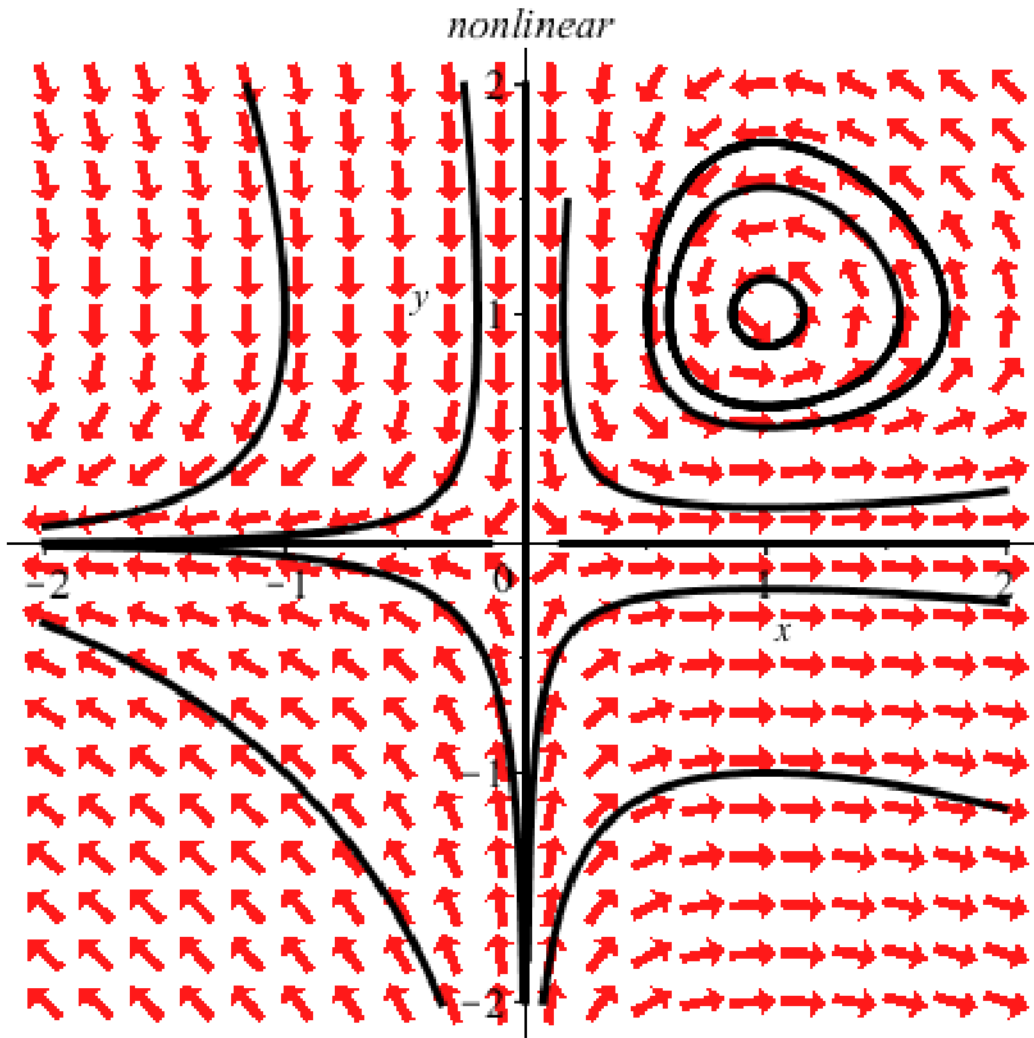


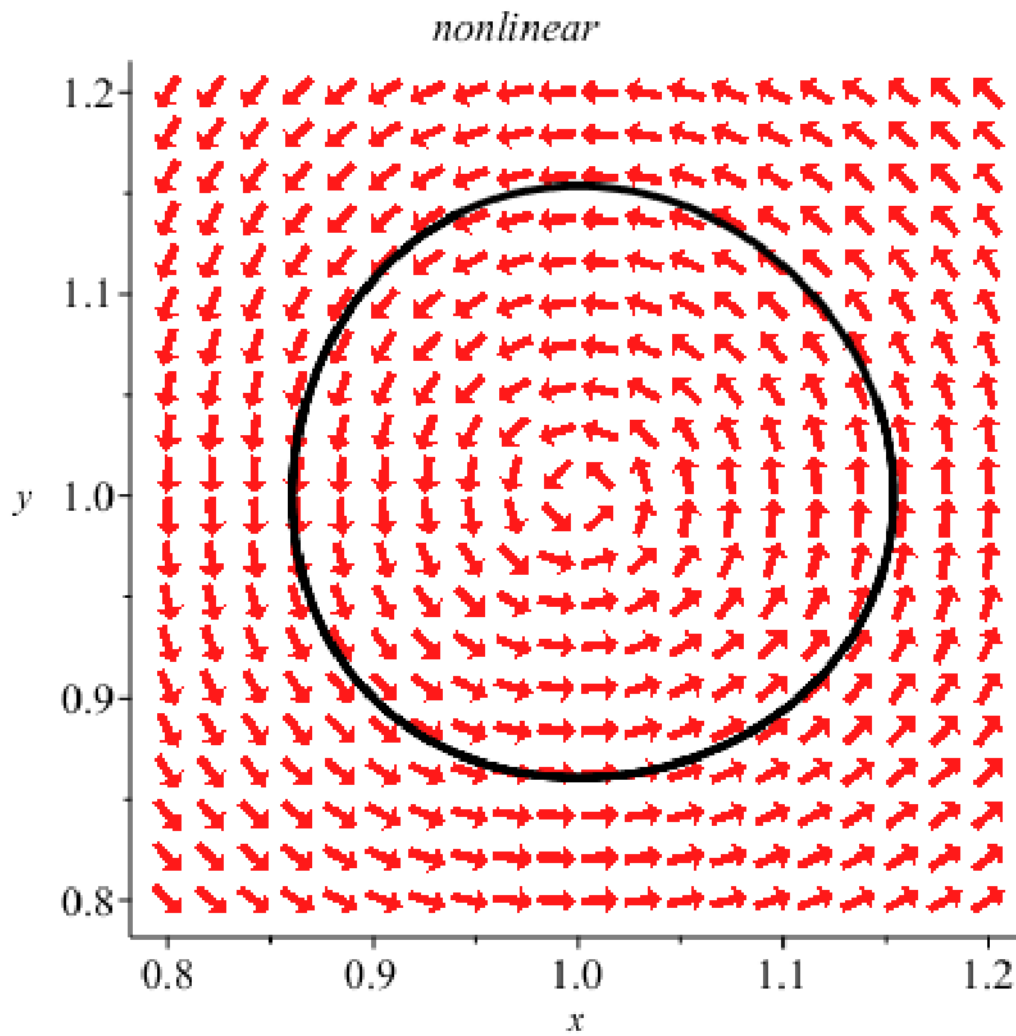
with(DEtools) :

[>

```
DEplot([diff(x(t), t) = x(t) - x(t) · y(t), diff(y(t), t) = -y(t) + x(t) · y(t)], [x(t), y(t)], t = -2..9, x =  
-2..2, y = -2..2, {[0, .7, .7], [0, .9, .9], [0, 1.5, 1.5], [0, .3, .3], [0, -1, -1], [0, -1, 1], [0, 1, -1],  
[0, 1, 0], [0, -1, 0], [0, 0, 1], [0, 0, -1], [0, -.3, -.3], [0, -.3, .3], [0, .3, -.3]}, arrows = THICK,  
stepsize = .01, linecolor = black, title = `nonlinear`);
```



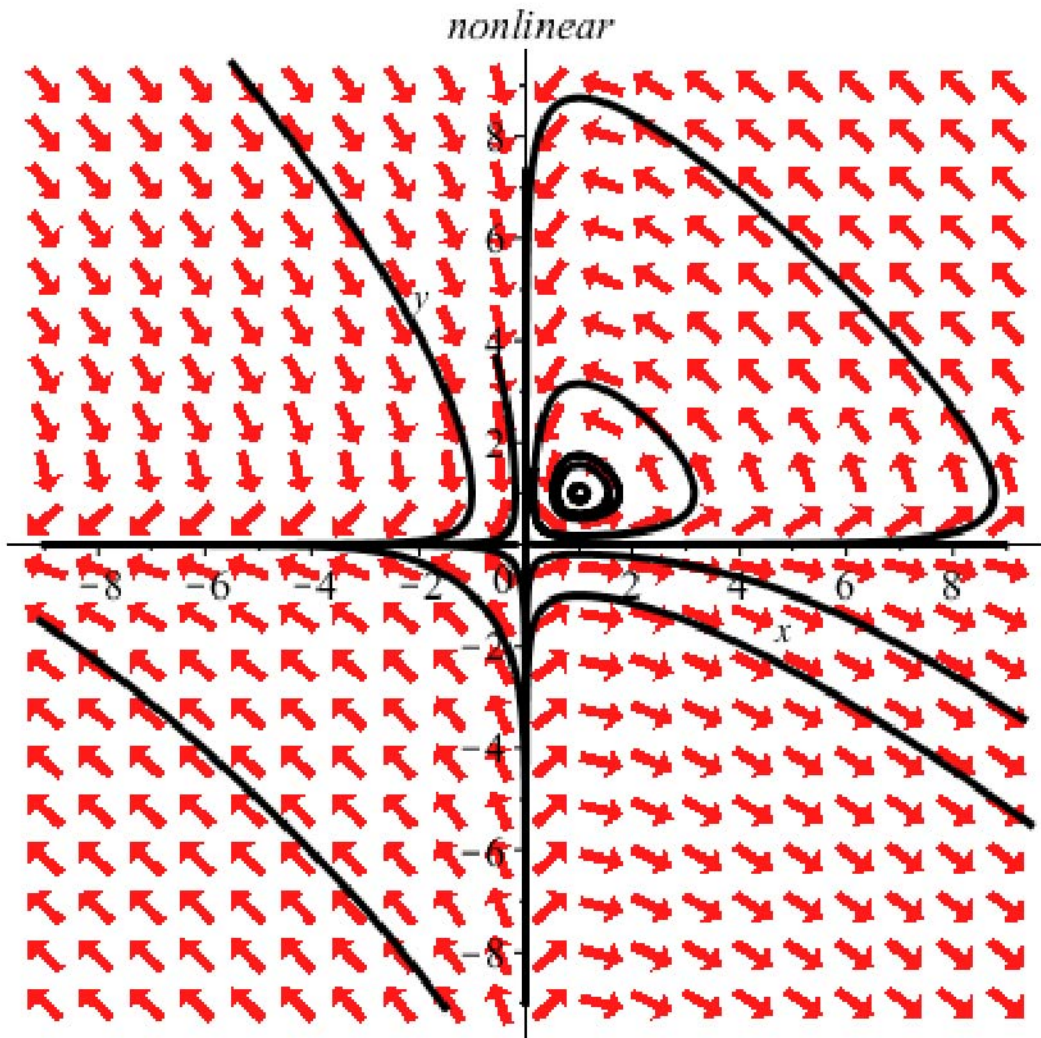
```
> DEplot([diff(x(t), t) = x(t) - x(t) * y(t), diff(y(t), t) = -y(t) + x(t) * y(t)], [x(t), y(t)], t = -2 .. 9, x = 0.8 .. 1.2, y = 0.8 .. 1.2, {[0, .7, .7], [0, .9, .9], [0, 1.5, 1.5], [0, .3, .3], [0, -1, -1], [0, -1, 1], [0, 1, -1], [0, 1, 0], [0, -1, 0], [0, 0, 1], [0, 0, -1], [0, -.3, -.3], [0, -.3, .3], [0, .3, -.3]}, arrows = THICK, stepsize = .01, linecolor = black, title = `nonlinear`);
```



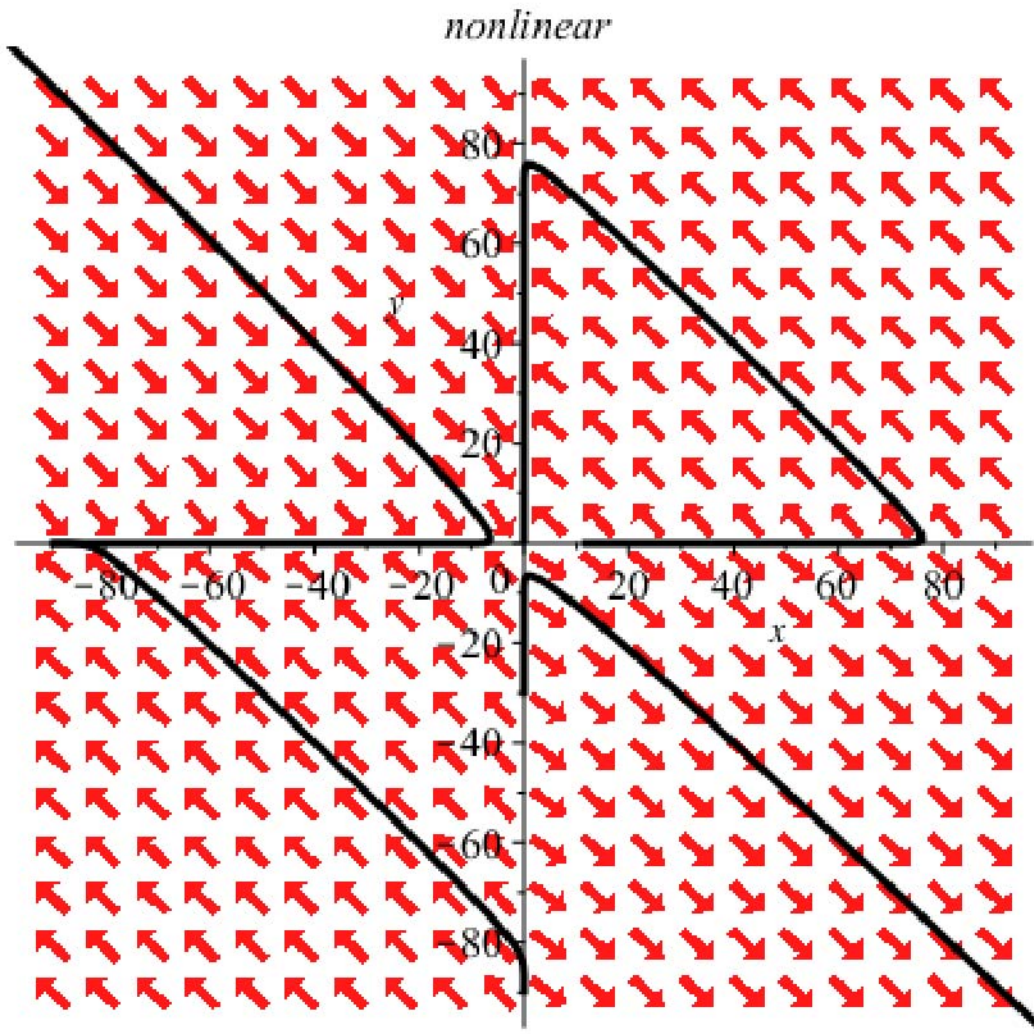
```

DEplot([diff(x(t), t) = x(t) - x(t) * y(t), diff(y(t), t) = -y(t) + x(t) * y(t)], [x(t), y(t)], t = -2..9, x =
-9..9, y = -9..9, {[0, .7, .7], [0, .9, .9], [0, 1.5, 1.5], [0, .3, .3], [0, -1, -1], [0, -1, 1], [0, 1, -1],
[0, 1, 0], [0, -1, 0], [0, 0, 1], [0, 0, -1], [0, -.3, -.3], [0, -.3, .3], [0, .3, -.3], [0, 5.5, 5.5], [0, -5,
-5]}, arrows = THICK, stepsize = .01, linecolor = black, title = `nonlinear`);

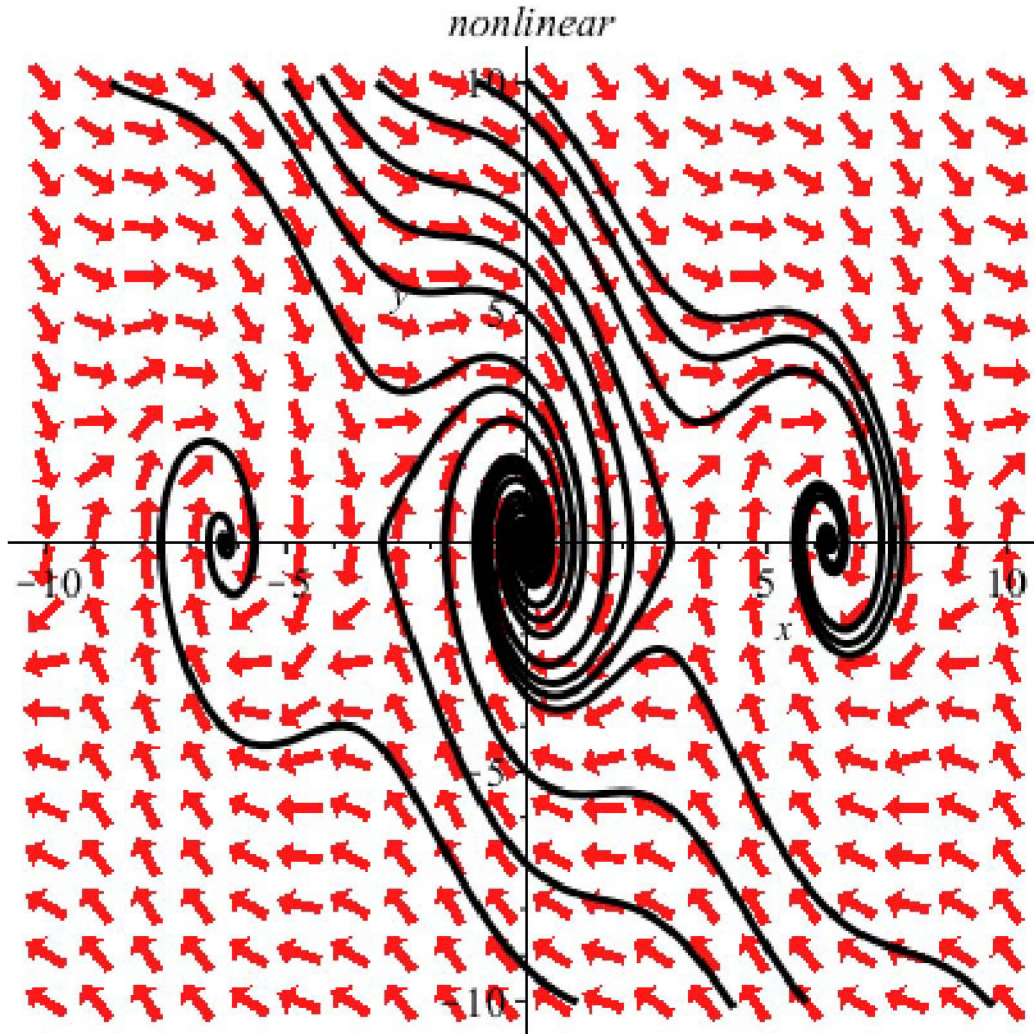
```



```
DEplot([diff(x(t), t) = x(t) - x(t) · y(t), diff(y(t), t) = -y(t) + x(t) · y(t)], [x(t), y(t)], t = -2..9, x = -90..90, y = -90..90, {[0, -40, -40], [0, -40, 40], [0, 40, -40], [0, 40, 40]}, arrows = THICK, stepsize = .01, linecolor = black, title = `nonlinear`);
```



> *DEplot*([*diff*($x(t)$), t) = $y(t)$, *diff*($y(t)$), t) = $-y(t) - 6 \sin(x(t))$], [$x(t)$, $y(t)$], $t = -2 \dots 9$, $x = -10 \dots 10$, $y = -10 \dots 10$, {[0, -4, -4], [0, -1, 4], [0, 4, -4], [0, 5, 5], [0, 0, 5], [0, 0, -5], [0, 0, 6], [0, 0, 7], [0, 0, -7], [0, 3, 3], [0, 4, 4]}, *arrows* = *THICK*, *stepsize* = .01, *linecolor* = *black*, *title* = `nonlinear`)



⇒ `DEplot` (`[diff(x(t), t) = y(t), diff(y(t), t) = -y(t) - 6 sin(x(t))]`, `[x(t), y(t)]`, `t = -2 .. 9`, `x = -10 .. 10`, `y = -10 .. 10`, `{[0, -4, -4], [0, -1, 4], [0, 4, -4], [0, 5, 5], [0, 0, 5]}`, `arrows = THICK`, `stepsize = .01`, `linecolor = black`, `title = `nonlinear``)

