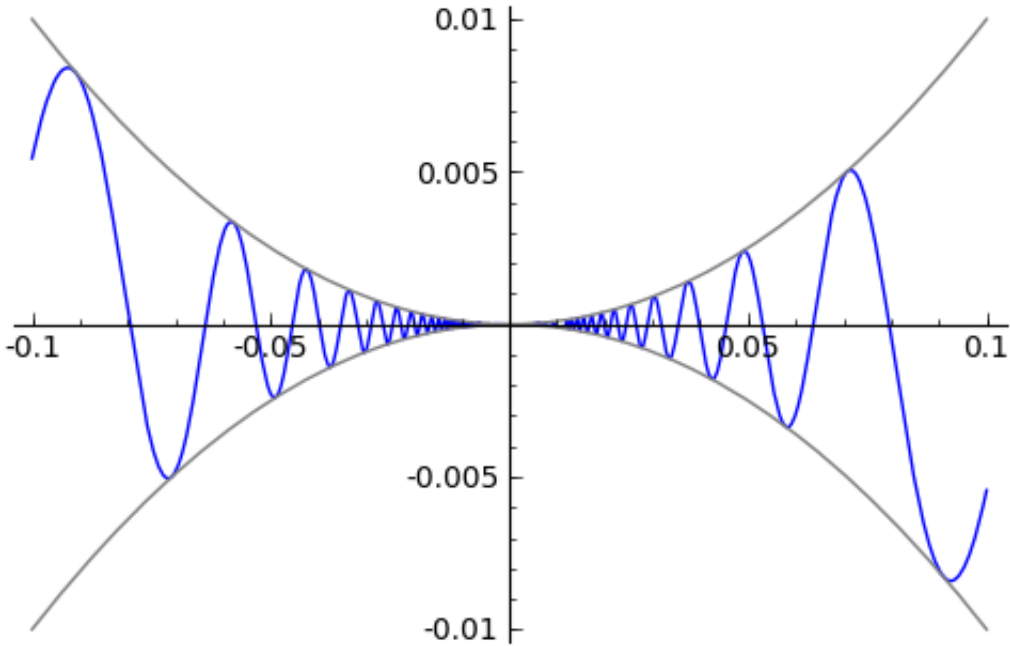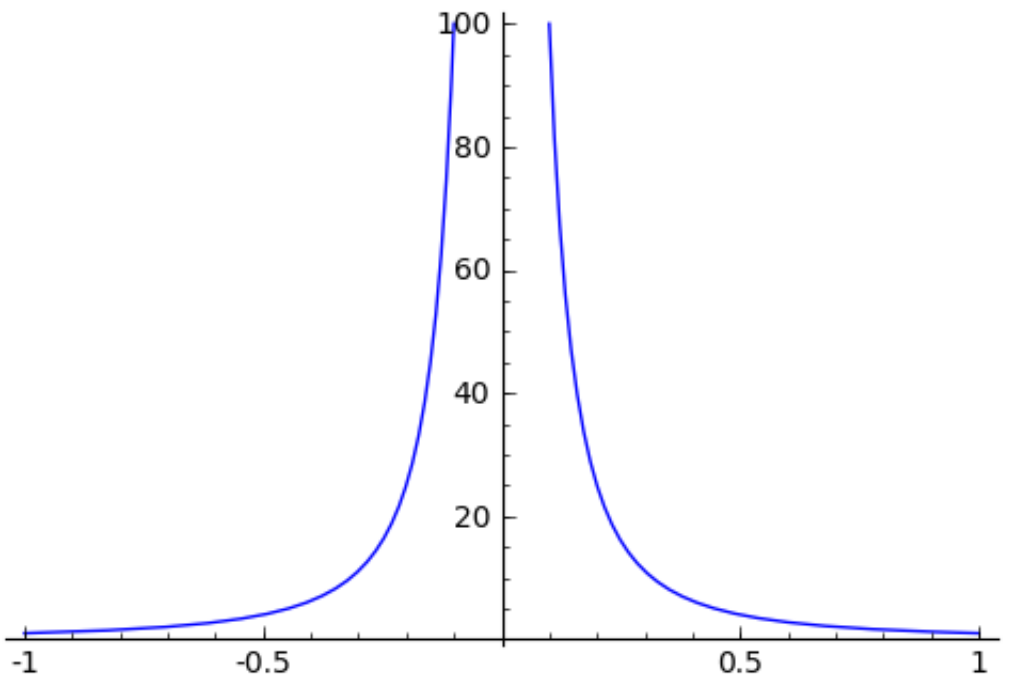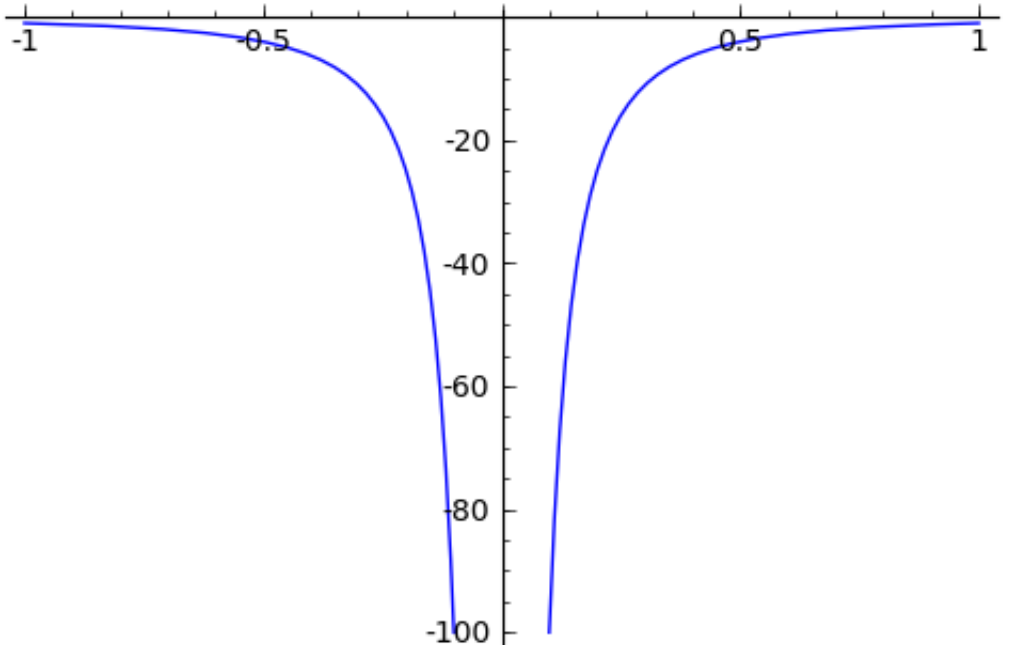# 1132f10-4

```
plot(x^2*sin(1/x), (x, -0.1, 0.1)) +plot(x^2, (x, -0.1, 0.1),
color='gray') +plot(-x^2, (x, -0.1, 0.1), color='gray')
```
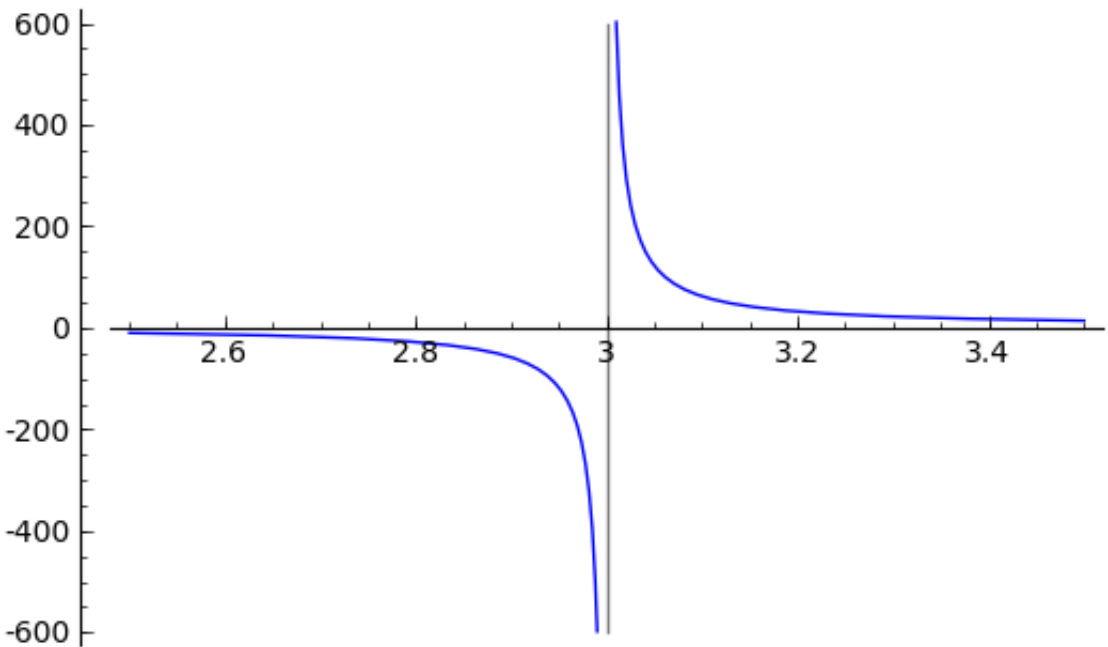


```
plot(1/x^2, (x, -1, -0.1))+plot(1/x^2, (x, 0.1,1))
```



```
plot(-1/x^2, (x, -1, -0.1))+plot(-1/x^2, (x, 0.1,1))
```



```
plot( (2*x)/(x-3), (x, 2.5, 2.99))+plot( (2*x)/(x-3), (x, 3.01,
3.5)) + line([(3,600), (3,-600)], color='gray')
```



```
plot(1/(x^2-1), (x, -2, -1.1))+plot(1/(x^2-1), (x, -0.9,
0.9))+plot(1/(x^2-1), (x, 1.1, 2))+ line([(-1,6), (-1,-6)],
color='gray')+ line([(1,6), (1,-6)], color='gray')
```