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Otherwise, expect VERY bad performance (e.g., 10 times slower!) and you can't install packages, clone from GitHub, or download datasets. – **more info** (<https://doc.cocalc.com/trial.html>)...  
Sorry to interrupt your work. A severe error happened in CoCalc's web

# CoCalc's webapp crashed

Don't worry, all your files are securely stored on its servers! Chat Private

**Please reload this browser tab in order to recover from this.**

If this happens repeatedly for a specific file or action, please report all details

to [help@cocalc.com](mailto:help@cocalc.com) (<mailto:help@cocalc.com>). Thank you!

37.1406926327793

```
g(x) = (2*x^2 - 6*x - 5)/(x-3) #Problem 2
solve (g == 0, x) #x-intercepts
```

```
[x == -1/2*sqrt(19) + 3/2, x == 1/2*sqrt(19) + 3/2]
```

```
g(0) #y-intercept
```

```
5/3
```

```
solve( diff(g, x) == 0, x)
```

```
[x == -1/2*I*sqrt(10) + 3, x == 1/2*I*sqrt(10) + 3]
```

```
g2 = diff(g, x, 2) #Local minimum
g2(0)
```

```
10/27
```

```
solve(1/g == 0, x) #Vertical asymptote
```

```
[x == 3]
```

```
limit(g, x ==+infinity)
```

```
x |--> +Infinity
```