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Chapter 1. *Fix* w0, Rl =2

Parameters:

```
Rl = 1.8862
w0 = 314
Tm = 686.7548
id0 = 20.2374
iq0 = 110.8368
```
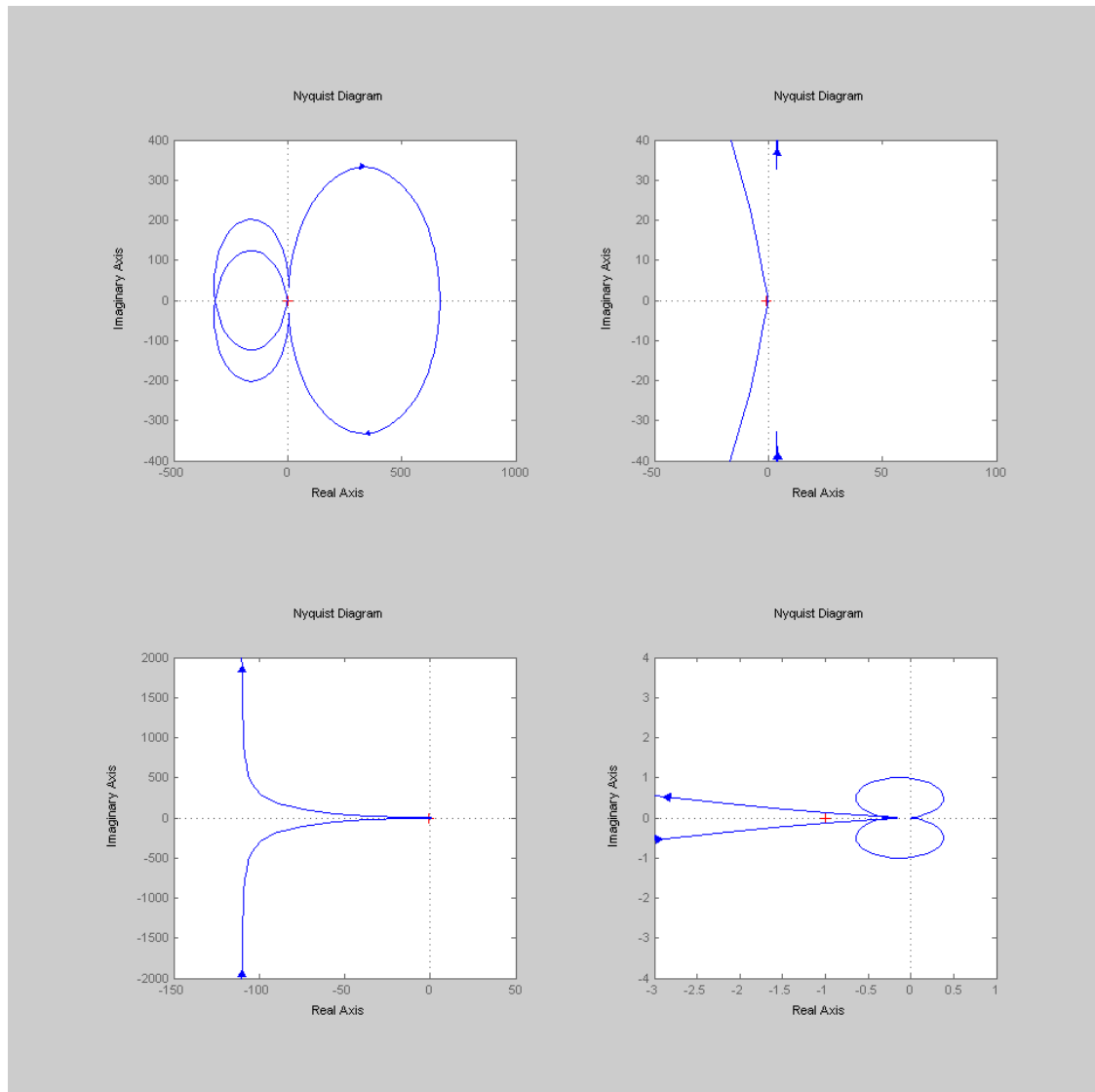


```
G (opel loop)  eigenvalues:
[-6.239468+320.5939i ;
 -6.239468-320.5939i ;
 -6.021063+0i        ]

1/s G (closed loop )eigenvalues:
```

```
[-7.726602+446.8972i ;
 -7.726602-446.8972i ;
 -5.354873+76.27668i ;
 -5.354873-76.27668i ]
```

Table 1.1. A

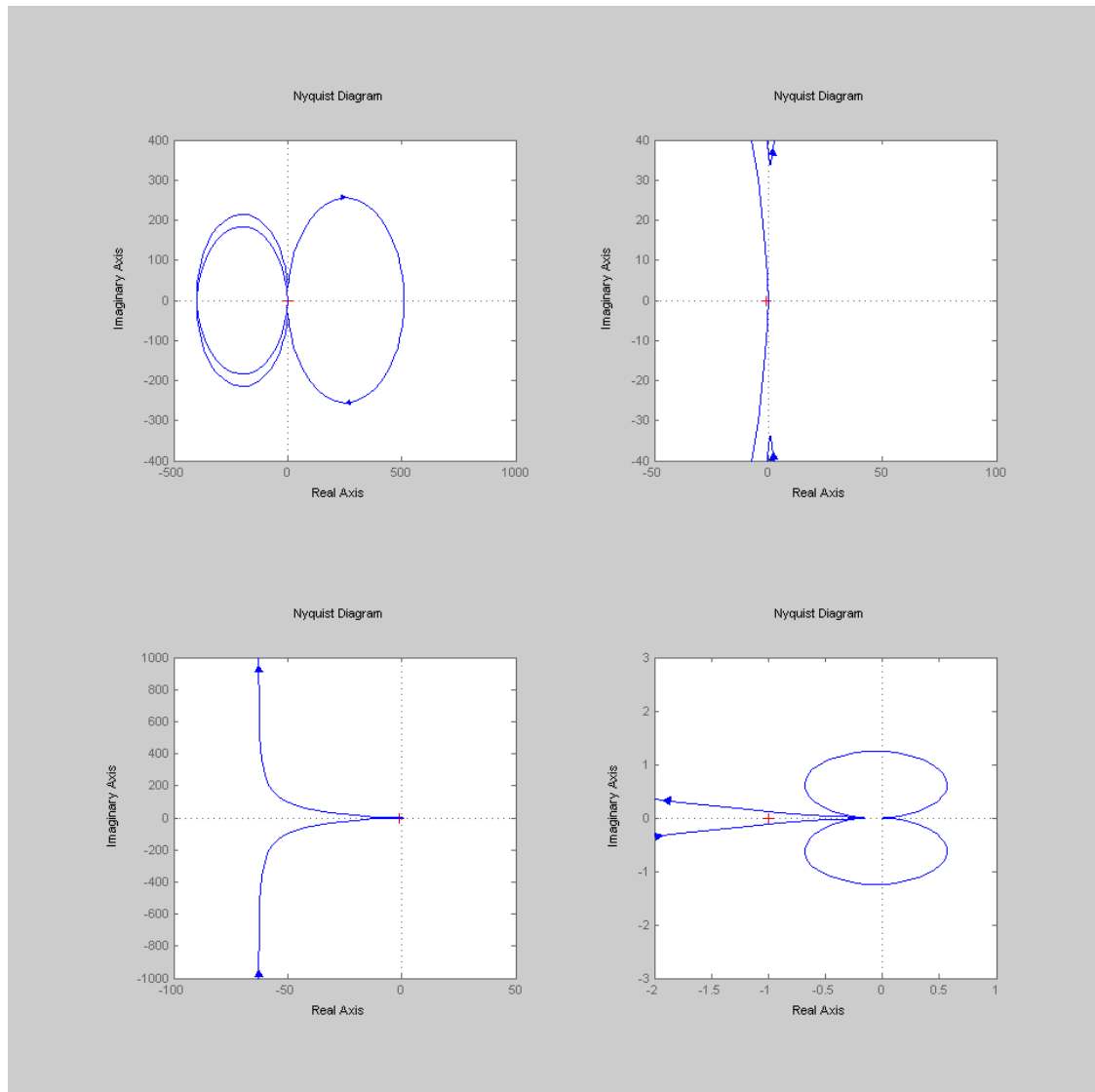| -5.0000	314	110.8368
-314	-5.0000	607.0354
0	-6.9000	-8.5000

Table 1.2. B

1.3439e+05
-2.4538e+04
0

Chapter 2. *Fix* w0, RI =19

Parameters:

```
Rl = 18.8620
w0 = 314
Tm = 549.6416
id0 = 0.2101
iq0 = 11.4794
```



```
G (opel loop)  eigenvalues:
[-5.194374+320.8138i ;
 -5.194374-320.8138i ;
 -8.111252+0i        ]

1/s G (closed loop )eigenvalues:
```

```
[ -7.26782+446.9971i ;
  -7.26782-446.9971i ;
 -5.813655+77.48203i ;
 -5.813655-77.48203i ]
```

Table 2.1. A

-5.0000	314	11.4794
-314	-5.0000	627.0626
0	-6.9000	-8.5000

Table 2.2. B

1.3919e+05
-2.5480e+03
0

Chapter 3.   *Fix* w0, RI =189
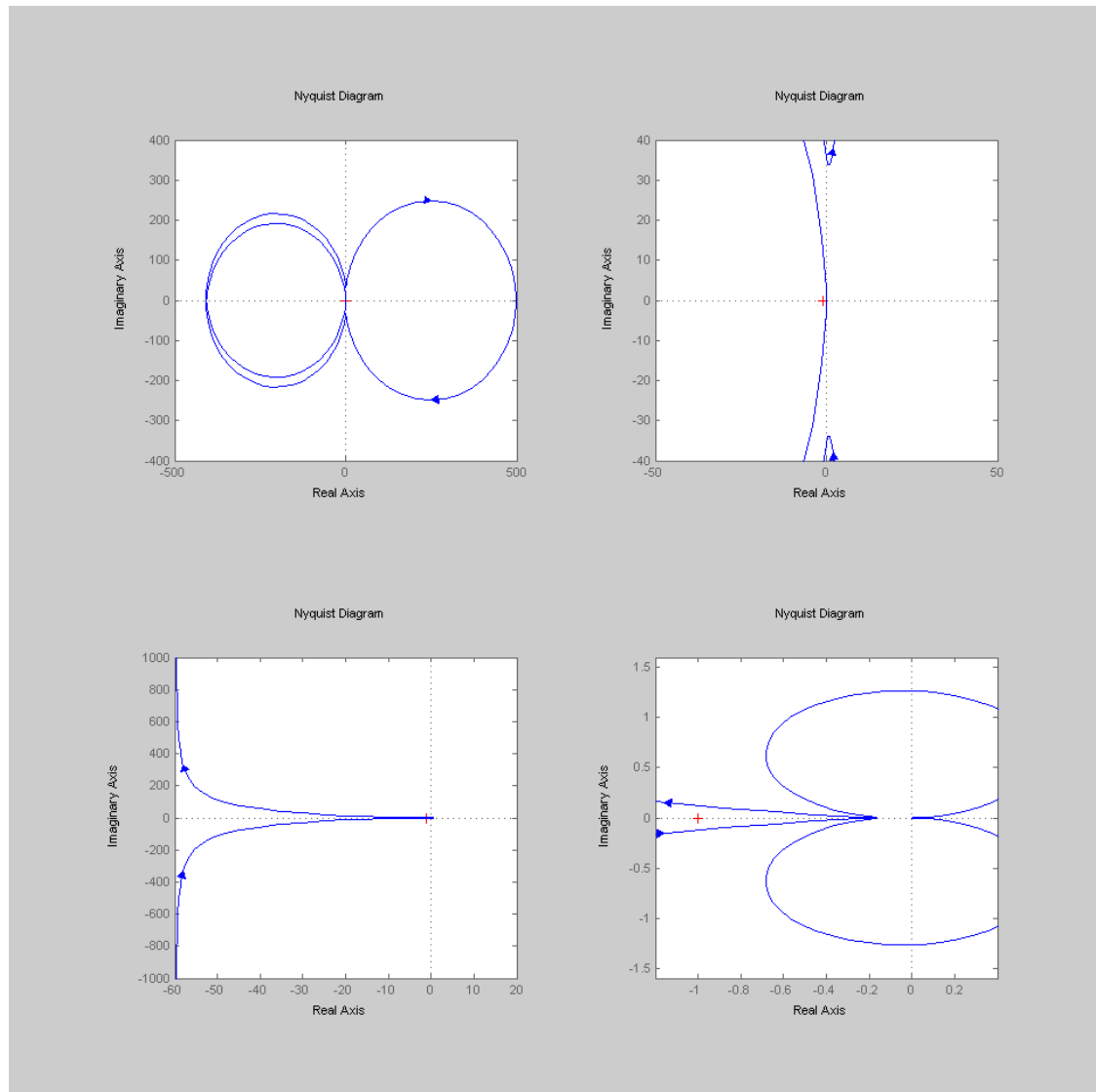
Parameters:

```
Rl = 188.6200
w0 = 314
Tm = 535.3851
id0 = 0.0021
iq0 = 1.1486
```



```
G (opel loop)  eigenvalues:
[-5.085671+320.8171i ;
 -5.085671-320.8171i ;
 -8.328657+0i        ]

1/s G (closed loop )eigenvalues:
```

```
[ -7.21999+446.9985i ;
  -7.21999-446.9985i ;
 -5.861486+77.49123i ;
 -5.861486-77.49123i ]
```

Table 3.1. A

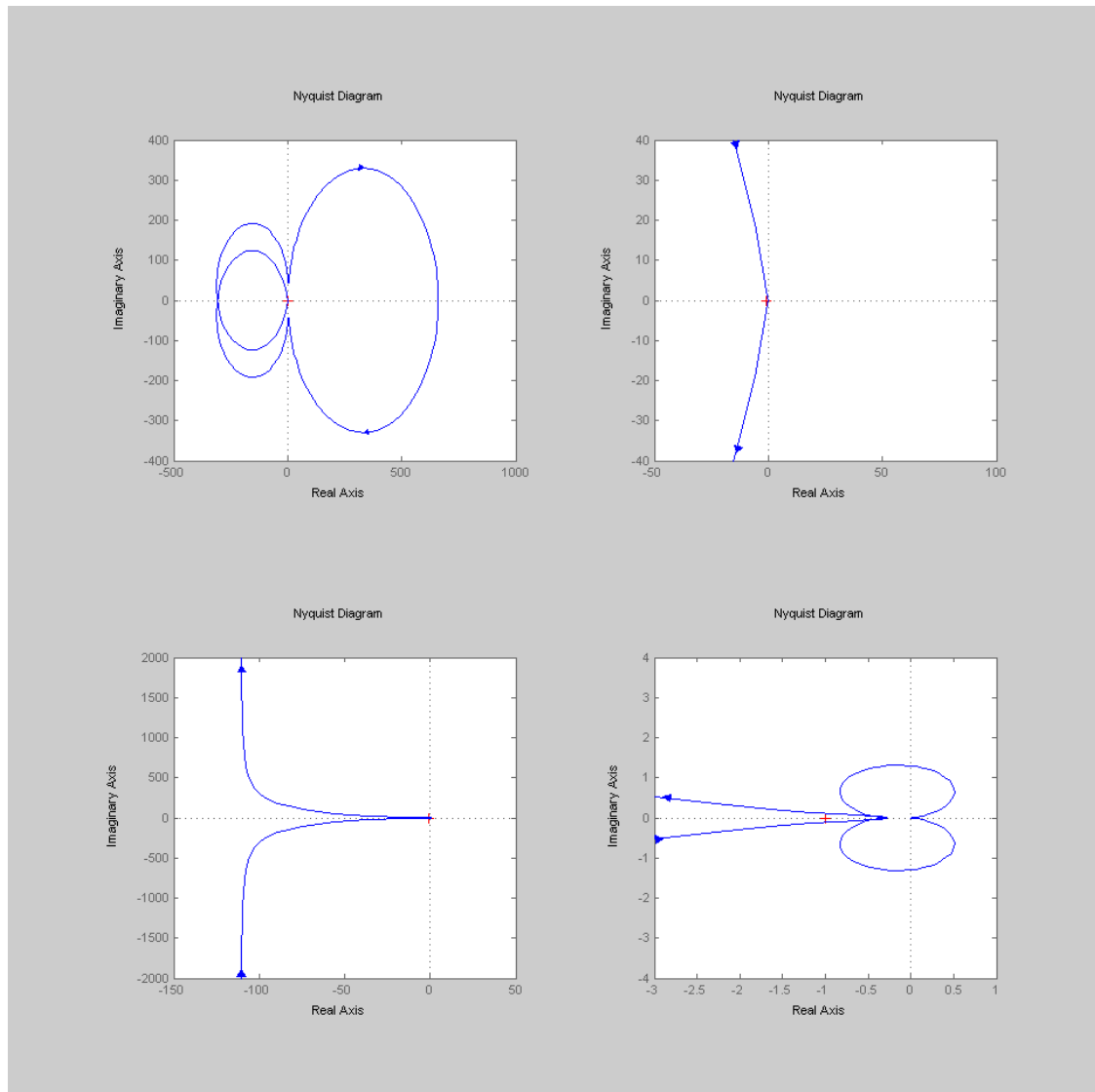| -5.0000	314	1.1486
-314	-5.0000	627.2706
0	-6.9000	-8.5000

Table 3.2. B

1.3927e+05
-255.0227
0

Chapter 4.   *Fix* Tm, RI =2

Parameters:

```
Rl = 1.8862
w0 = 227.8241
Tm = 500
id0 = 10.8188
iq0 = 81.6659
```



```
G (opel loop)  eigenvalues:
[-6.275547+236.9669i ;
 -6.275547-236.9669i ;
 -5.948905+0i         ]

1/s G (closed loop )eigenvalues:
```

```
[ -7.87446+326.2605i ;
  -7.87446-326.2605i ;
 -5.207015+76.39199i ;
 -5.207015-76.39199i ]
```

Table 4.1. A

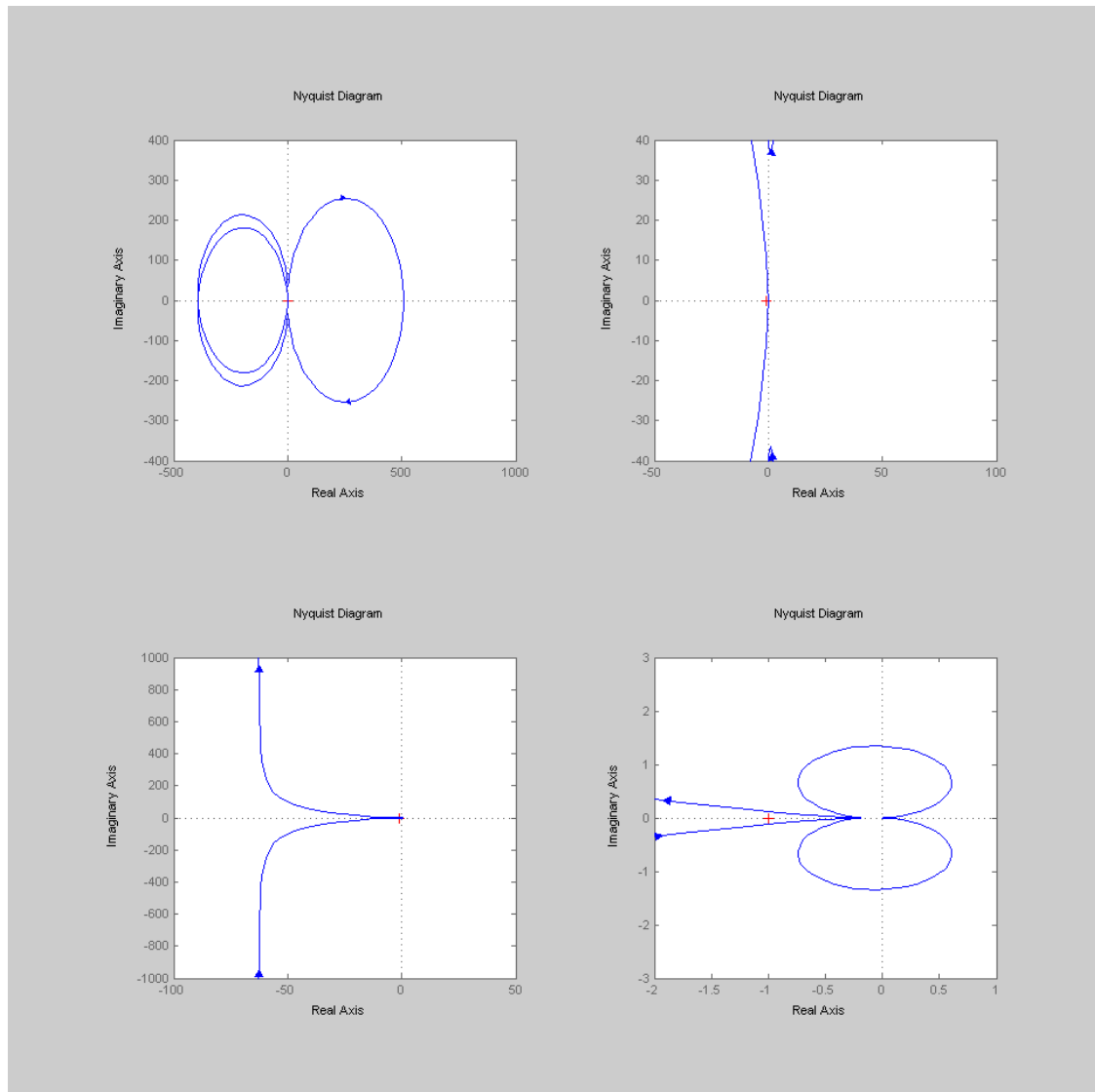| -5.0000	227.8241	81.6659
-227.8241	-5.0000	616.4539
0	-6.9000	-8.5000

Table 4.2. B

9.9020e+04
-1.3118e+04
0

Chapter 5. *Fix* Tm, RI =19

Parameters:

```
Rl = 18.8620
w0 = 285.6402
Tm = 500
id0 = 0.1739
iq0 = 10.4432
```



```
G (opel loop)  eigenvalues:
[-5.207893+293.1143i ;
 -5.207893-293.1143i ;
 -8.084215+0i        ]

1/s G (closed loop )eigenvalues:
```

```
[-7.298422+407.2006i ;
 -7.298422-407.2006i ;
 -5.783053+77.37427i ;
 -5.783053-77.37427i ]
```

Table 5.1. A

-5.0000	285.6402	10.4432
-285.6402	-5.0000	627.0988
0	-6.9000	-8.5000

Table 5.2. B

1.2662e+05
-2.1087e+03
0

Chapter 6. *Fix* Tm, RI =189
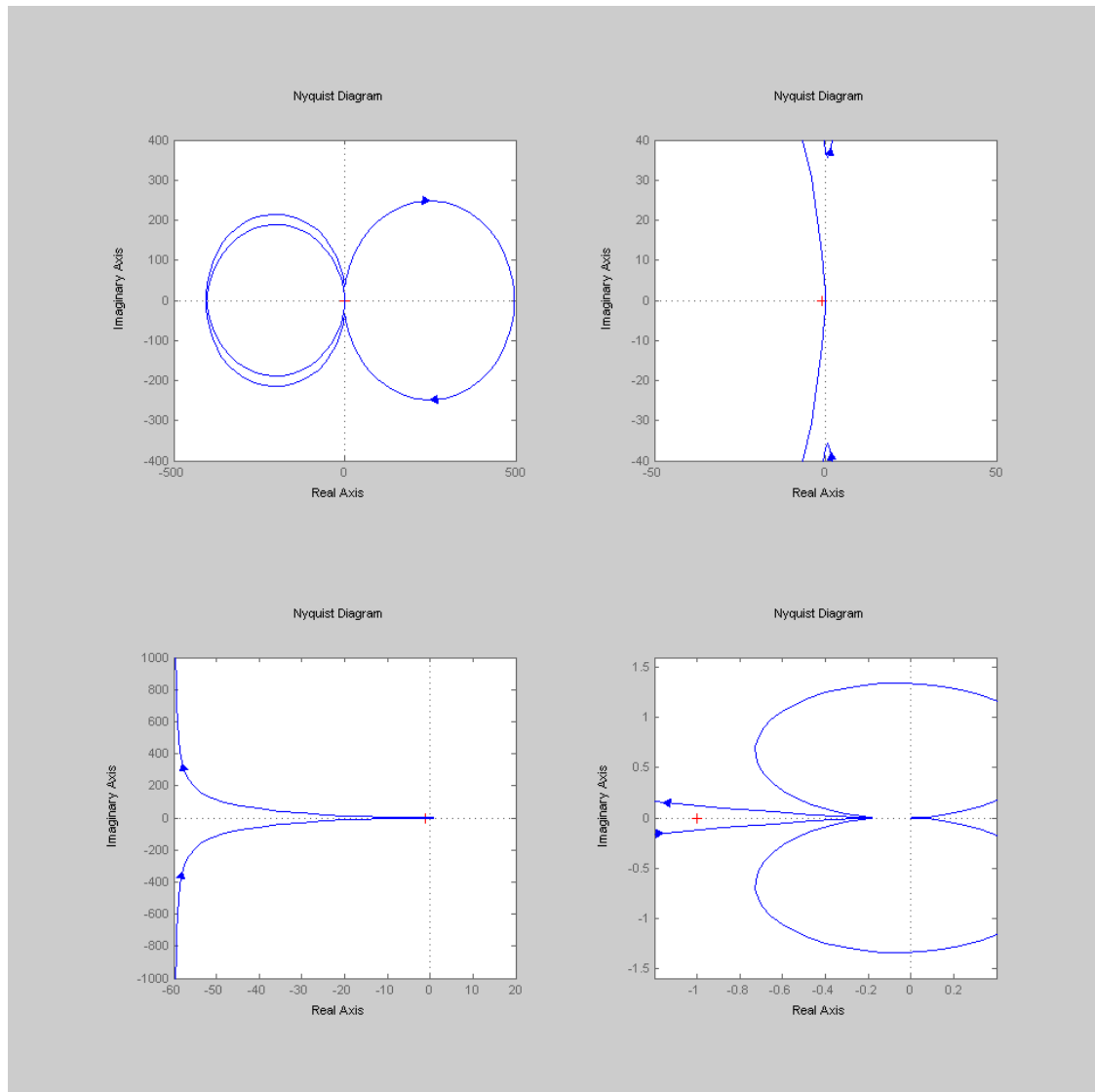
Parameters:

```
Rl = 188.6200
w0 = 293.2469
Tm = 500
id0 = 0.0018
iq0 = 1.0727
```



```
G (opel loop)  eigenvalues:
[-5.095863+300.5349i ;
 -5.095863-300.5349i ;
 -8.308274+0i       ]

1/s G (closed loop )eigenvalues:
```

```
[-7.241372+417.8698i ;
 -7.241372-417.8698i ;
 -5.840104+77.414i   ;
 -5.840104-77.414i   ]
```

Table 6.1. A

-5.0000	293.2469	1.0727
-293.2469	-5.0000	627.2709
0	-6.9000	-8.5000

Table 6.2. B

1.3007e+05
-222.4265
0