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Student ID

```
ID_STUDENT_1 = 302363049;
disp(ID_STUDENT_1)
```

302363049

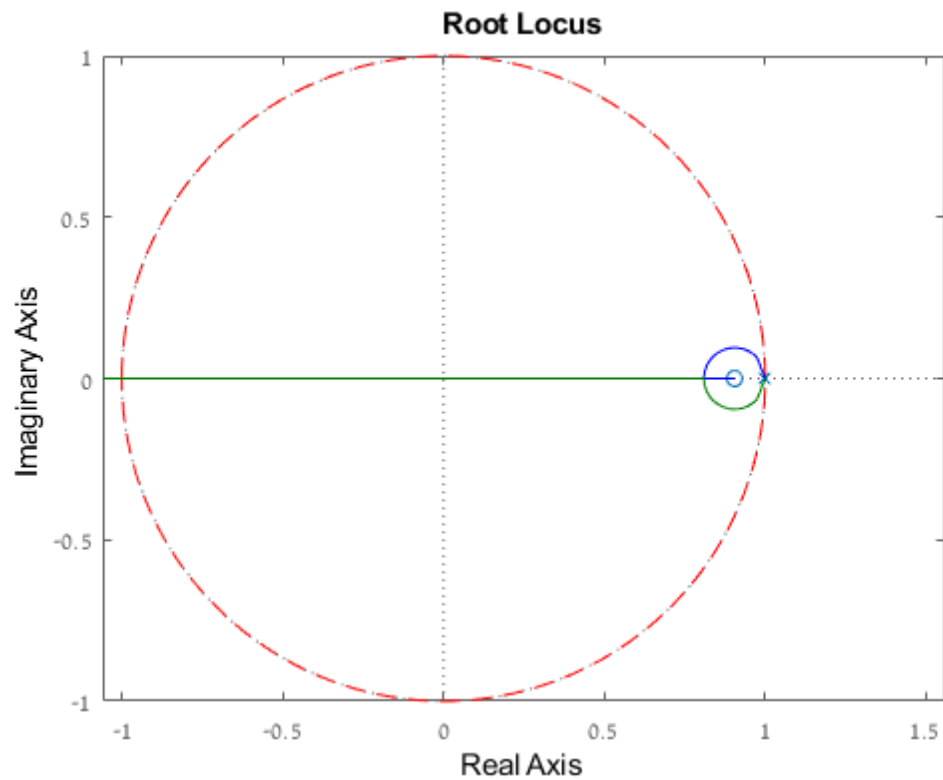
1 Discrete control 1

```
H=tf([0 21/2 -19/2],[1 -2 1],-1)
t=-pi:0.01:pi;
a=exp(-1i.*t);
plot(a,'r--')
hold on
rlocus(H)
axis equal
```

H =

$$\frac{10.5 z - 9.5}{z^2 - 2 z + 1}$$

Sample time: unspecified
Discrete-time transfer function.



Discrete control 2

```
H=tf([0 1 0.2],[1 -1 0],-1)
t=-pi:0.01:pi;
a=exp(-1i.*t);
plot(a,'r--')
hold on
rlocus(H);
axis equal
```

H =

$$\frac{z + 0.2}{z^2 - z}$$

Sample time: unspecified
Discrete-time transfer function.

