Table of Contents


```
clear all
clc
```

Appendix 2A

This file will be where the output of each function is located

ex1polar2rec

Output of polar2rec function

```
e1 = ex1polar2rec(100,30);
e2 = ex1polar2rec(100,135);
e3 = ex1polar2rec(100,240);
```

```
x =

   86.6025


y =

    50


x =

  -70.7107


y =

   70.7107


x =

   -50
```

```
y =

  -86.6025
```

ex1rec2polar

Output of rec2polar function

```
e3 = ex1rec2polar(55,55);
e4 = ex1rec2polar(-20,-75);
```

```
theta =

    45


l =

   77.7817


theta =

 -104.9314


l =

   77.6209
```

ex2

Output of ex2 function

```
e5 = ex2(50,50,0,0);
e6 = ex2(50,50,30,45);
e7 = ex2(50,50,270,30);
```

```
x =

   100


y =

     0


x =
```

```
   56.2422

y =

   73.2963

x =

    25

y =

  -93.3013
```

ex3

Output of ex3 function

```
e8 = ex3(50,50,55,75);
e9 = ex3(50,50,35,15);

r =

   93.0054

theta_2 =

   43.1136

alpha =

  -95.4567

beta =

    4.7579

theta_1 =

  100.2146

r =
```

```
   38.0789

theta_2 =

  135.2349

alpha =

   53.9928

beta =

    0.4569

theta_1 =

  -53.5359
```

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