9/12/2018 Problem #0.21

Problem #0.21

By: Ian Doarn Class: EECE 3203

Contents

- part a
- part b
- part c
- part d

part a

```
z = 1 + 1j;
w = -1 + 1j;
v = -1 - 1j;
u = 1 - 1j;
compass(z, 'r')
hold on
compass(w, 'g')
compass(v, 'b')
compass(u, 'y')
title('Compass plot of vectors z, w, v, u');
hold off
```

part b

```
summed = z + w + v + u
```

part c

```
ratio_zw = z/w
ratio_wv = w/v
ratio_uz = u/z
ratio_uw = u/w
```

part d

```
y = 10^-16*z
figure();
compass(y)
title('Compass plot of vector y = 10e-16z');
mag_y = norm(y)
```

```
summed =
```

0

9/12/2018 Problem #0.21

```
ratio_zw =
    0.0000 - 1.0000i

ratio_wv =
    0.0000 - 1.0000i

ratio_uz =
    0.0000 - 1.0000i

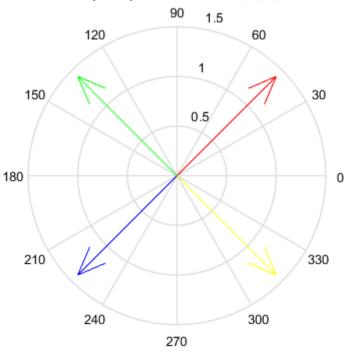
ratio_uw =
    -1

y =
    1.0000e-16 + 1.0000e-16i

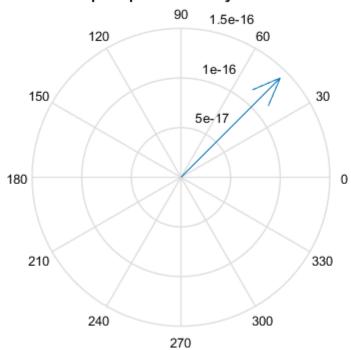
mag_y =
    1.4142e-16
```

9/12/2018 Problem #0.21

Compass plot of vectors z, w, v, u



Compass plot of vector y = 10e-16z



Published with MATLAB® R2018a