# Resolver el siguiente problema

• 
$$\frac{10+3j}{2j} - (7+2j)(3 \perp -115^{\circ}) =$$

$$(10+3i)(-i)$$

$$\frac{(10+3j)(-j)}{2j(-j)}-(7+2j)(-1,26-2,71j)$$

$$\frac{3-10j}{2}-(-8.82-18.9j-2.52j+5.4)$$

$$1, 5 - 5j - (-3.42 - 21.42j) = 4,92 + 16,42j$$

### Forma Rectangular

$$=4.92+16.42i$$

# NORM CMPLX DECI $\frac{10+3i}{2i} - (7+2i)(3 \angle -115)$ 4.93713677433+16.56817309821i

# Polar -> Rectangular

$$3 \, \, \Box - 115^{\circ} = r \cos \theta + j \, r \, sen \, \theta$$
$$= 3(-0.42) + j \, 3(-0.90)$$
$$= -1.26 - 2.71 \, j$$

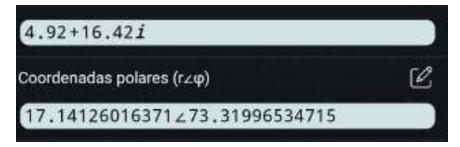
### Rectangular -> Polar

4, 92 + 16, 42
$$j = \sqrt{x^2 + y^2}$$
 + Arc Tang(y/x)

$$4,92+16,42j=\sqrt{(4,92)^2+(16,42)^2}+\frac{16,42}{4.92}$$

$$13.42 + 24.42j = 17,14 \perp 73,31$$

*Forma Polar* =  $17, 14 \perp 73, 31$ 



# Resolver el siguiente problema

$$6.8 \angle 125.3 + \frac{4.5 \angle -11.5}{7.6 - 1.2i}$$

6.55452780839-1.86919822457*i* 

## Polar -> Rectangular

#### Rectangular -> Polar

6, 55 - 1, 86
$$j = \sqrt{x^2 + y^2}$$
 + Arc Tang(y/x)

6, 55 - 1, 86
$$j = \sqrt{6,55^2 + (-1,86)^2} + arc Tang(\frac{-1,86}{6,55})$$
  
POLAR = 6, 8 \( \subset - 0, 27\)

6.80897202227∠-0.27668578104

# Resolver el siguiente problema

• 
$$\frac{34+28,5j}{4L-20,8^{\circ}}$$
 - 51, 2 L215°

$$\frac{34+28,5j}{-1,48-3,71j}-10,12-50,18j$$

$$\frac{-156,05+83,96j}{15,95}-10,12-50,18j$$

$$-9,78+5,26j-10,12-50,18j$$

$$RECTANGULAR = -19,9-44,91i$$

$$\frac{34+28.5i}{4\angle -20.8} -51.2\angle 215$$

$$-19.89425140387-44.93$$

# Polar -> Rectangular

$$-51, 2 \perp 215^{\circ} = -51, 2cos(215) + 51, 2sen(215)$$
  
 $-51, 2 \perp 215^{\circ} = -10, 12 - 50, 18j$ 

Convertir (-51.2, 215) a coordenadas cartesianas: (-10.12654..., -50.18857)

$$4 \sqcup -20, 8^{\circ} = 4cos(-20, 8) + 4sen(-20, 8)$$
  
 $4 \sqcup -20, 8^{\circ} = -1, 48 - 3, 71j$ 

Convertir (4, -20.8) a coordenadas cartesianas: (-1.48237..., -3.71518...

#### Rectangular -> Polar

$$-19, 9 - 44, 91j = \sqrt{(-19, 9)^2 + (-44, 91)^2} + arc Tang(\frac{-44, 91}{-19, 9})$$

$$POLAR = 49, 12 \bot 1, 15$$