

PA 3

Pseudocode

CPE 2600 PA3 Pocudo Coole		leigh Goods Ch
	· Add: c1+c2 · Subtract: c1-c2	
	* Subtract: C1-C2 * Magnitude: va2+b2 => cabs() *Phase: arctan(==) => cavos() * Pectanyular form! mag.(cos(prosio)+sn(phose)i) * Multiply: c1 · c2 * Divote: C1/C2	
	· Multiply: c1 · c2 · Dinote: c1/c2 · Parallel Impedence: zeg = 21.22/(21+22) = 7 (c1 · c2)/(c1+c2)	

Show Program working

```
goetschm@AAD-PF50KM51:~/cpe2600/pa3$ ./complex
x = 3.00 + 4.00i
y = 1.00 + 2.00i
Addition:
x + y = 4.00 + 6.00i
Subtraction:
x - y = 2.00 + 2.00i
Magnitude of x:
|sqrt(real^2 + imag^2)| = 5.00
Phase of x (radians):
atan2(imag, real) = 0.93
Rectangular form from polar:
magnitude * (cos(phase) + sin(phase)i) = 3.00 + 4.00i
Multiplication:
x * y = -5.00 + 10.00i
Division:
x / y = 2.20 + -0.40i
Parallel Impedance: 0.77 + 1.35i
```