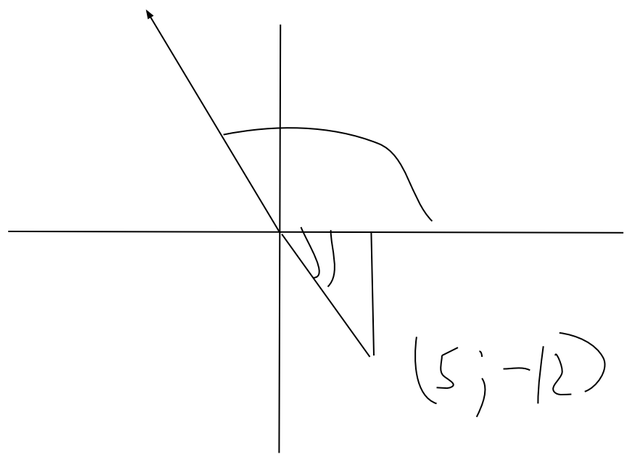
5. Determine the modulus and argument of each of the following complex numbers and express them in polar form.

i) $5 - 12i$. ii) $-\sqrt{2} + \sqrt{2}i$. iii) $-\sqrt{3} + 3i$.

i) 5-12i
r=V(25+144)=V(169)=13
arg(z)=atan2(y,x)=arctan(-12/5)
ii) -V2+V2i
r=V(2+2)=V(4)=2
arg(z)=atan2(y,x)=arctan(-1)+P=-P/4+P=3P/4
iii)-V3+3i
r=V(3+9)=V(12)=2V3
arg(z)=atan2(y,x)=arctan(-V3)+P=-P/3+P=2P/3



tg(z)=-12/5
z=arctg(-12/5)