

MATH 2167 Mathematics 1

Associate Degree in Engineering College of VE, Future Technologies

Tutorial 3 Complex Numbers

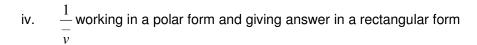
Question 1

Let u = 1 - i and $v = -\sqrt{3} + i$, then find:

i. u and v in a polar form

ii.
$$2\sqrt{3}u - \sqrt{3}v$$

iii.
$$\operatorname{Im} \left(\frac{1}{u} \right)$$
 working in rectangular form



v.
$$\frac{u}{v}$$
 working in a polar form and giving answer in a rectangular form

vi.
$$\frac{u^8}{v^6}$$

vii. plot
$$u$$
, u , v , v on an Argand diagram