M174 218

Exercises on Conflex unichler

[1] Let = 1= 12 + i12 an === 212 +2i12

find (1) = +== (ii) = -== (iii) = 1 ×=== (m) = (v) |21+ = (vi) | = 1/22 (VII) Express Z, and Zz in Euler form. 12) Using the principle of mortenet cal induction, Prove Ret the De Moure's (Coso 4 (sho) = cosna + (sin na (S) Using the name De movie, there of Freducte (h) 1 (Cos 8-(5mb)) (Cos 8-(5mb)) (Cos 8+(5mb)) (Cos 4 Express cosso in terms of powers 3 (3) If Z=2+3i, Express the fillowing in the powers of exponential e. (6) Express 2= (4+3i)eis in the form

(i) eit (ii) elth (iii) ein (n) ei 37/2 (8) Let Z, = re' and Show that = 2=2, et/2 (9) If z = 2+31, Express the followings in the powers of exponential e (10) Find lim (22+1)

(11) If given a complex number W=2, find W.

13 Just the primative met 12th mot

1 Ford 2 my 922+62+C=0. Hence food solve sle: 24(2i-3)2+(5-i)=0 35m 0 - 45ms0

Express the populary in toler forms
is eit (ii) elte (iii) eit (iv) eiste
(v) esti (vi) enti

7 = 2 - 13 = 1.5 7 = 2 - 13 = 1.5 7 = 2 - 13 = 1.5 7 = 2 - 13 = 1.5