MATH1021 A1

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(a)

7

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Par

50

C.

En

6

E

6

6

6

63

SID: 510603294 61 A = {1,2,3,4,5,6,7} B = 21, 3, 5, 8, 93 C = 81, 4, 6, 83 0 = {3,5,7,83 (AOB) IC (0) AnB = &1,3,53 £1,3,531C = (AID)U(DIA) (6) = 21, 2, 4,63 0 883 = [[1, 2, 4, 6, 33] (AUD) \ (AOD) 21,2,3,4,5,6,7,83 \ 23,5,73 = [21,2,4,6,83] 02 (a) 2 = (1+i)(-2+3i)- - 2 - 2 i + 3 i + 3 i² = -2-13 ti (6) $Z = \left(\frac{1+i}{1-i}\right)^{2023} = A^{2023} \left(A = \frac{1+i}{1-i}\right)$ $A = \frac{1+i}{1-i} \times \frac{1+i}{1+i} = \frac{1-1+2i}{2} = \frac{2i}{2} = i$ i. 7 = 12023 = 12000 . 20 × 13 $= 1 \times 1 \times i^{3} = i^{3} = -i$



