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~~CLASS~~ DEPT BIO-CHEMISTRY

COURSE CODE: MATH 101

MAT NO: 19/MHS02/035

i) Empty set is a set which contains no element

ii) Singleton set is a set that contains only one element

2  $A = 2 + 7i$        $\operatorname{Re} z = \frac{z + \bar{z}}{2}$  and  $\operatorname{Im} z = \frac{z - \bar{z}}{2i}$   
 $B = 9 - 5i$

(i)  $(A/B) = \frac{2+7i}{9-5i}$

$$= \frac{2+7i}{9-5i} \times \frac{9+5i}{9+5i}$$

$$= \frac{18+10i+63i+(-35)}{81+45i-45i+25} = \frac{-17+73i}{106}$$

(ii)  $(B-A) = (9-5i) - (2+7i)$   
 $= (9-5i-2-7i)$   
 $= 7-12i$