11/05/20 - 1pm

ANDREW WHITE 1803827

MATHEMATICS M4X00391

(1a)(i) $(7+5j)+(-2+6j)$

$= \underline{\underline{5+11j}}$

(ii) $(7+5j)-(-2+6j)$

$= \underline{\underline{9-j}}$

(iii) $\frac{7+5j}{3-7j} \times \frac{3+7j}{3+7j}$

$= \frac{21+49j+15j+35j^2}{9+21j-21j-49j^2}$

$= \frac{21+64j+35(-1)}{9-49(-1)}$

$= \frac{-14+64j}{58} = \frac{-14}{58} + \frac{64j}{58}$

(iv) $(7-5j)-(3+7j)$

$= \underline{\underline{4-12j}}$