

Analytical methods Acha Akoo
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Q5) $z_1 = 3 + 7j$, $z_2 = -10j$

i) $z_1 + z_2$

$z_1 = 3 + 7j$

$z_2 = -10j$

$(3 + 7j)(-10j)$

$3 + 7j - 10j$

$5 - 3j$

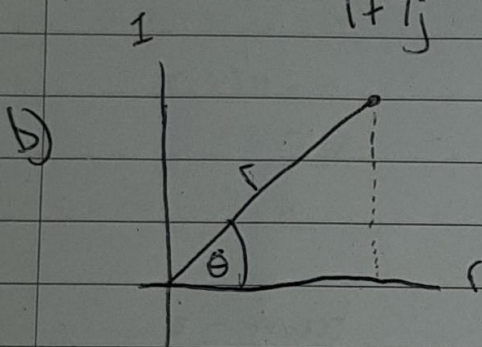
ii) $(3 + 7j)(-10j)$

$3 + 7j - 10j$

$3 - 3j$

$1 + 7j$

$r =$



c) $(5 + 3j)^4$
 $r^n (\cos \theta + j \sin \theta)$