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Analytical methods
test 2

question 2

a) $Z_1 = 3 + 7j$, $Z_2 = 2 - 10j$, $Z_3 = -4 - j$

1 $Z_1 + Z_3$

$$\begin{array}{r} (3 + 7j) \\ 3 + 7j \end{array} + \begin{array}{r} (-4 - j) \\ -4 - j \end{array}$$

$$-1 + 6j$$

2 $Z_1 - Z_3$

$$\begin{array}{r} (3 + 7j) \\ 3 + 7j \end{array} - \begin{array}{r} (-4 - j) \\ -4 - j \end{array}$$

$$7 + 8j$$

3 $\frac{Z_1}{Z_2}$

$$Z_1 = (3 + 7j) \quad Z_2 = (2 - 10j)$$

Z_1	$\frac{3 + 7j}{2 - 10j}$	$\frac{2 + 10j}{2 + 10j}$	F
Z_2	$2 - 10j$	$2 + 10j$	O

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