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$$4.1795 (\cos 5 \times 110.557 + j \sin 5 \times 110.557)$$

$$1274.564611 (\cos 552.835 + j \sin 552.835) \text{ P.F}$$

$$1274.564611 (-0.9750138361 + -0.2221441411j)$$

$$= -1242.718131 - 283.1374048j \text{ cartisian}$$

d) $j^5 \times j^3 = j^8$