

$$50, i_{2}(5) = \frac{0.907(-39.7)^{6}}{8 + 0.349 + j 0.507} + \frac{0.907(39.7)^{6}}{8 + 0.349 + j 0.507}$$

$$i_{2}(t) = 0.907e^{-j 34.7l} \cdot e^{-j(t)} + 0.907e^{-j 34.7l} \cdot e^{-j(t)}$$

$$1_{2}(t) = 0.907e^{-j 34.7l} \cdot e^{-j(t)} + 0.907e^{-j 34.7l} \cdot e^{-j(t)}$$

$$1_{2}(t) = 0.907e^{-j 34.7l} \cdot e^{-j(t)} + 34.26$$

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$$1_{2}(t) = 0.$$

6.3 Find Vo(t) 2 = 2(811) Zz= 8'03 4 = 3 3+8' 8 = 38+1 2,+2,= (28+2)(38+1) + 3(8+3) = 682+88+2+36+9
(8+3)(38+1) (8+3)(38+1) = 682+118+11 (8+3)(35+1), But, in = -1 2,+22 50, is = 652+118+11 = 128(843)(38+1) (513)(38+1) = 652+118+11(85+1) Take is = is 51+3 = 35+1 is where 10= is Then V. = (3841)(52+1)(682+118+11) = 128 8+3 (3841)(52+1)(682+118+11) = 52+1 682+118+11 4(8) is appear, 34+3 40,26 (47.1° 5+311 +0,26 (47.1° since 127 is surce - 1 /1, = 12(0.26 cos(6-47.1°))]

5.6. + locos(6)
$$\circ$$
 2

- 20 cos(6) \circ 2

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New $\frac{1}{\sqrt{5}} = \frac{1}{\sqrt{5}} + \frac{1$