

$$= 4 - 2j$$

$$= 4055 \angle -9.46^{\circ} \cdot 12$$

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$$= 2015 \angle -3.46^{\circ} \cdot 12$$

$$= 201$$

$$= \frac{410 \times 0}{-59 + 244}$$

$$= 2.498 (26) (24 - 20.784)$$

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$$= 2.40 \times 100$$

$$= 2.40 \times 50 \times (42 + 90)$$

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At steady state, Vo = -11 V12 = -(+2.338in (5++ 12.19)+2.498(08(2+-30.764°) 10245 3.> Find V,, V2 Vi Va 340 -3isc 6; 3 \$ 12.52 \bigcirc $V_1 - V_2 = 10245^\circ = 5\sqrt{2}(1+j)$ Ans) $-3+ v_1 + v_2 + v_2 = 0$ $-3i \quad 6i \quad 12$ $\Rightarrow -3 + \frac{\sqrt{11}}{3} - \frac{\sqrt{21}}{6} + \frac{\sqrt{2}}{12} = 0$ \Rightarrow -36+ 411i - 212i + 12 = 0>> 41/j + 12 (1-2j) = 36 => 4(V2+5/2+5/2j)j+ V2(1-2j)=36 $\Rightarrow V_2 = 36 + 5\sqrt{2} - 20\sqrt{2}j$ 1+21 = 3.41 L-87.18° V V = 25.78 L-70.48°V 60 j 4.) \$ 302 3 101

8-33+2.57) 14-3j = 3.63 - 5.68i = 6.74 L-57.42°