



























**Example 1-4:** Given the sinusoidal time functions and complex numbers below:

$$v_1(t) = 340 \cdot \sin(377 \cdot t + 10^\circ)$$
$$v_2(t) = 277 \cdot \sin(377 \cdot t - 30^\circ)$$
$$\overline{Z} = 70 + j20$$
$$\overline{I} = 3 - j2$$

Find  $V_2 + V_1$ ,  $V_2 - V_1$ ,  $V_1/Z$ , I(Z) give the results in polar form for all calculations

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