1) a)
$$-20 \omega s (5 + 135^{\circ}) = -20 \omega s (5 + -55^{\circ})$$

$$= [-20 | -55^{\circ}]$$
b) $8 \sin (20 + 30^{\circ}) = 8 \cos (20 + 90 - 90)$

$$= 8 \cos (20 + 60)$$

2) a)
$$V_1 = 60 (15^{\circ} V, w=1)$$

$$V_2 = [60 (05 (t + 15^{\circ}))]$$
b) $V_2 = 6 + j8 V, w=40$

$$V_2 = 10 [53.13^{\circ}]$$

$$V_3 = [60 (15^{\circ} V, w=1)]$$

$$V_4 = [60 (05 (t + 53.13^{\circ})]$$

$$V_5 = [60 (05 (t + 53.13^{\circ})]$$

$$V_7 = [60 (05 (t + 53.13^{\circ})]$$