AV-1_Z-5 Rješenje:

a) $A \cdot \bar{A} = 25$
   $A + \bar{A} = 6$
   $A - \bar{A} = -\text{j}8$
   $\frac{A}{\bar{A}} = -0{,}28 - \text{j}0{,}96$
b) $A \cdot \bar{A} = 100$
   $A + \bar{A} = 17{,}32$
   $A - \bar{A} = -\text{j}10$
   $\frac{A}{\bar{A}} = 0{,}5 - \text{j}0{,}87$
c) $A \cdot \bar{A} = 6{,}25$
   $A + \bar{A} = -2{,}5$
   $A - \bar{A} = -\text{j}4{,}33$
   $\frac{A}{\bar{A}} = -0{,}5 + \text{j}0{,}87$

AV-1_Z-6 Rješenje:

$$\underline{E} = 0V \Rightarrow e(t) = 0V$$

AV-1_Z-7 Rješenje:

a) $I_R = 19 + \text{j}11$ A, $i_R(t) = 31\sin(314t + 30°)\,A$
b) $I_L = 116.8 - \text{j}202{,}3$ A, $i_L(t) = 330{,}4\sin(314t - 60°)\,A$
c) $I_R = -103{,}6 + \text{j}179{,}5$ A, $i_C(t) = 207{,}3\sin(314t + 120°)\,A$

AV-1_Z-8 Rješenje:

a) $p(t) = 4840 \cdot \left(1 - \cos\left(628t + 60°\right)\right)$ W
   $P = 4840$ W
   $Q = 0$ var
   $w(t) = 4840t + 7.71\sin(628t + 60°) - 6{,}67$ Ws

b) $p(t) = 51380 \cdot \cos(628t + 150°)$ W
$P = 0$ W
$Q = 51380$ var
$w(t) = 81{,}82 + 81{,}82 \sin(628t + 150°)$ Ws

c) $p(t) = 45593 \cdot \cos(628t - 30°)$ W
$P = 0$ W
$Q = 45593$ var
$w(t) = 72{,}6 + 72{,}6 \sin(628t - 30°)$ Ws