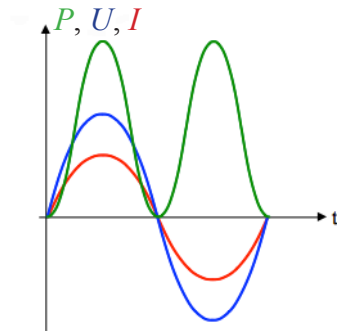


## Lösungen Nr. 2/2015: Wechselstrom

1.



2. b, c, d

3. a

4. a, d

5. a, b

6. a) 50 Umdrehungen = 50 Perioden,  $f = \underline{50 \text{ Hz}}$

b)  $360^\circ = 1 \text{ Periode}$ ,  $T = 1/f = 1/50 \text{ Hz} = 0,02 \text{ s}$   
 $0,02 \text{ s} / 4 = 0,005 \text{ s} = \underline{5 \text{ ms}}$

c)  $u_{240} = u_s \cdot \sin \alpha$      $u_s = U \cdot \sqrt{2} = 60 \text{ V} \cdot \sqrt{2} = 84,85 \text{ V}$   
 $u_{240} = 84,85 \text{ V} \cdot \sin 240^\circ = \underline{-73,48 \text{ V}}$

7. c, d