1. Given: Vmax = 7.8V, Vmin = 5V

Solution:

Vm = Vmax – Vmin / 2

    = 7.8 / 2

    = 2.8 / 2

    = 1.4V

Answer :

 = 1.4V

2. Given:

Vpeak = 8.37V, Vthrough = 3.21V

Solution:

m = Vmax – Vmin / Vmax + Vmin X 100%

   = 8.37 – 3.21 / 8.37 + 3.21 X 100%

   = 5.16 / 11.58 X 100%

   = 44.56%

Answer :

= 44.56%

3. Given :

Vm = 5.32V , Vc = 9.83V

Solution:

m= Vm/Vc X 100%

  = 5.32 / 9.83 X 100%

  = 54.12%

Answer:

54.12%

    4. Given :

Vc = Vmax – Vm

    = 6.19 – 0.453

    = 5.737V

Vmin = Vc – Vm

      = 5.737 – 0.453

       = 5.284V

Answer: 5.284V

    5. Given:

Vmax = Vc + Vm , Vmin = Vc – Vm

Solution :

From no. 4 we have Vmax = 6.19V and Vm = 0.453V,

We found Vmin = 5.284V,

and we know Vc = Vmax – Vm

Also Vmin = Vc – Vm = (Vmax - Vm) – Vm = Vmax – 2Vm

If we substitute the given values

Vmin = 6.19 – 2(0.4543) = 6.19 – 0.906 = 5.284V

Answer: Vmin = Vmax – 2Vm