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Cool! I'am really happy

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Chapter 3: Diodes Rectifiers

Prob 3-1 $V_{in} = 170$ $R = 5$ $f = 60$
Using Eq (3-11)
 $V_{dc} = \frac{2V_m}{\pi}$ $V_{dc} = 108.23$
 $V_{dc} = 0.6366 V_m$ $V_{dc} = 108.22$

Prob 3-2 $V_{in} = 170$ $R = 10$ $f = 60$ $I_L = 0.5 \cdot 10^{-3}$
Using Eq (3-11)
 $V_{dc} = 0.6366 V_m$
 $I_L = \frac{V_{dc}}{R}$ $I_L = 10.82$
Using Eq (3-83)
 $V_s = 2.4 I_L V_{dc}$ $V_s = 0.65$
 $V_{dc} = V_{dc} - V_s$ $V_{dc} = 107.57$

Prob 3-3 $V_{in} = 170$ $R = 5$ $f = 60$
Using Eq (3-25)
 $V_{dc} = V_m \frac{\pi}{\pi} \cos\left(\frac{\alpha}{2}\right)$ $V_{dc} = 162.34$

Prob 3-4 $V_{in} = 170$ $R = 5$ $f = 60$ $I_L = 0.5 \cdot 10^{-3}$
Using Eq (3-25)
 $V_{dc} = V_m \frac{\pi}{\pi} \cos\left(\frac{\alpha}{2}\right)$ $V_{dc} = 162.34$
 $I_L = \frac{V_{dc}}{R}$ $I_L = 32.47$
Using Eq (3-83)
 $V_s = 2.4 I_L V_{dc}$ $V_s = 5.84$
 $V_{dc} = V_{dc} - V_s$ $V_{dc} = 156.49$

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