$V_{in} = V_p \sin\omega t$ V_{out} R_L

In the half-wave rectifier above, the input voltage is 10 V (rms) and $R_L = 30\Omega$. Find the peak output voltage for each of the V-I diode characteristics shown in the graph below.

100

a   b   c

I(mA)

0

0   0.5   1   1.5

V (Volts)