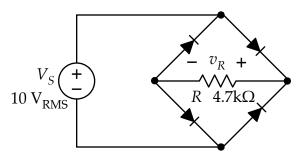
Name

A full-wave rectifier circuit is shown at right. The source is a sinusoidal with a frequency of 60 Hz.



(a) What will be the peak value of the rectified voltage waveform?

 $v_R(\text{peak}) =$ _____

b) If a capacitor is placed in parallel with the resistor to make a peak rectifier, what value should it have in order to keep the ripple voltage to less than 5% of the peak of the peak value?

C = _____

c) For the capacitor chosen in part (b), what will be the average voltage across the resistor?

v_R(average) = _____