Chapter 9, Solution 34.

$v_o = 0$ when $jX_L - jX_C = 0$ so $X_L = X_C$ or $\omega L = \dfrac{1}{\omega C}$ $\longrightarrow$ $\omega = \dfrac{1}{\sqrt{LC}}$.

$$\omega = \frac{1}{\sqrt{(5 \times 10^{-3})(20 \times 10^{-3})}} = \textbf{100 rad/s}$$