The op-amp is ideal, with $V_{CC} = 10 \, \text{V}$ and $V_{EE} = -10 \, \text{V}$. The diode forward voltage, $V_D = 0.7 \, \text{V}$.

- What is the frequency of oscillation.
- Sketch $V_o$ when the oscillation amplitude has stabilized.
- Indicate the approximate voltage of oscillation on the sketch.
The op-amp is ideal, with $V_{CC} = 2\,V$ and $V_{EE} = -2\,V$.

Initial conditions are: $V_{-} = 0$ and $V_{o} = +V_{CC}$.

Sketch as a function of time: 1) $V_{-}$, 2) $V_{+}$, 3) $V_{o}$.
Initial conditions are that the charge on the capacitor is zero. $V_{CC} = 9 \text{ V}$.

- Sketch $V_o$, $V_A$ and $V_B$.
- What is the length of the $V_o = \text{high}$ and $V_o = \text{low}$ outputs?