2. b. Use this equation to find how long it would take to grow a droplet from 5 to 50 microns. Use a saturation ratio of 1.0005 and a temperature of 273K. Use the table on page 103 of Rogers and Yau to find $K$ and $D$. $L = 2.5\times10^6$ J/kg.

**Answer:** $F_k = 7.2\times10^9$ s/m$^2$; $F_d = 9.3\times10^9$ s/m$^2$; $\Delta t = 11.4$ hr