

### **Thin Lens Equation:**

$$1/f = (n-1)(1/R_1 - 1/R_2) = (n-1)(C_1 - C_2)$$

$$\text{For } R_1 = R_2 = R \quad 1/f = (n-1)(2/R)$$

$$F = R \quad (n = 1.5)$$

$$R_2 = \text{inf} \quad 1/f = (n-1)(1/R)$$

$$F = 2R \quad (n = 1.5) \text{ or } R = f/2$$

### **Thick Lens Equation:**

$$1/f = (n-1)(1/R_1 - 1/R_2 + (n-1)t/nR_1R_2)$$